



AGE Technologies

PRODUCT CATALOGUE

SEPTEMBER 2015















Power, Energy and Control System Solutions and Products



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INVERTERS

SOLAR KITS



Ingeteam



KACO



Schneider Electric



ABB



FRIEM

| Inverter Size | Indicative Price |
|--|---------------------|
| 1 Phase | |
| 2.5kW | R 14,500.97 |
| 3kW | R 14,819.79 |
| 3.5kW | R 16,333.65 |
| 4kW | R 17,927.17 |
| 5kW | R 19,520.69 |
| 3 Phase | |
| 5kW | R 19,575.71 |
| 7.5kW | R 21,640.00 |
| 10kW | R 33,331.43 |
| 12kW | R 37,425.74 |
| 15kW | R 41,738.47 |
| 20kW | R 48,024.82 |
| 40kW | R 91,626.40 |
| 60kW | R 100,235.15 |
| 1 Phase - Off Grid | |
| 3kW | R 51,348.87 |
| 6kW | R 62,348.86 |
| Notes: | |
| Manufacturers technical specifications may occur. Prices are subject to ROE at time of order. Subject to availability. All prices are excluding VAT. Project pricing on request. | |



| Item Code | Description | Price |
|-----------------|----------------|---------------------|
| Grid Tie | | |
| AGE1.5KW | 1.5kW | R 39,335.13 |
| AGE2.5KW | 2.5kW | R 48,103.05 |
| AGE3KW | 3kW | R 59,844.04 |
| AGE5KW | 5kW | R 85,266.96 |
| AGE6KW | 6kW | R 97,246.16 |
| AGE10KW | 10kW - 3 Phase | R 158,065.80 |

| Off Grid | | |
|---|-------|---------------------|
| AGE2.5KW | 2.5kW | R 77,171.41 |
| AGE3KW | 3kW | R 87,053.66 |
| AGE5KW | 5kW | R 116,875.00 |
| AGE6KW | 6kW | R 130,489.12 |
| <p style="text-align: center;"><i>Option 1:</i> Includes Modules, mounting frame, grid tie inverter, cable, connectors, AC and DC protection and earthing</p> <p style="text-align: center;"><i>Option 2:</i> Includes Modules, mounting frame, off grid inverter, cable, connectors, AC and DC protection, earthing, batteries, battery stand and charge controller.</p> | | |



SOLAR CABLE & ACCESSORIES

| AGE Solar Cable | | |
|-----------------|--|---------------|
| Product Code | Description | Price/pm |
| AGESOLAR4MMBLK | Solar Cable 4mm ² Black/Red/Blue | R8.20 |
| AGESOLAR6MMBLK | Solar Cable 6mm ² Black/Red/Blue | R10.20 |
| AGESOLAR10MMBLK | Solar Cable 10mm ² Black/Red/Blue | R19.50 |



| MC4 Inline Connector | | |
|----------------------|--|---------------|
| 3 2.0017P0001-UR | PV-KST4/6II-UR, MC4 inline, male, crimp (4mm ² - 6mm ²), cable OD 5,5mm ² - 9mm ² | R20.00 |
| 3 2.0016P0001-UR | PV-KBT4/6II-UR, MC4 inline, female, crimp (4mm ² - 6mm ²), cable OD 5,5mm ² - 9mm ² | R25.50 |
| 3 2.0014P0001-UR | PV-KBT4/6I-UR, MC4 inline, male, crimp (4mm ² - 6mm ²), cable OD 3mm ² - 6mm ² | R22.50 |
| 3 2.0015P0001-UR | PV-KST4/6I-UR, MC4 inline, female, crimp (4mm ² - 6mm ²) cable OD 3mm ² - 6mm ² | R33.50 |



| MC4 Panel Mount Connectors | | |
|----------------------------|---|---------------|
| 3 2.0054P00010 | PV-ADBP4/2,5, MC4 male, crimp (2,5mm ² and 4mm ²) | R22.50 |
| 3 2.0055P00010 | PV-ADSP4/2,5 MC4 female, crimp (2,5mm ² and 4mm ²) | R18.28 |
| 3 2.0056P00010 | PV-ADBP4/6, MC4 male, crimp (6mm ²) | R23.00 |
| 3 2.0057P00010 | PV-ADSP4/6, MC4 female, crimp (6mm ²) | R19.20 |



| MC4 Crimping Tool Case Set | | |
|----------------------------|--|------------------|
| 32.6019 | PV-WZ4-SET, Case includes the below products. | R8,879.87 |
| 32.6020-19100 | PV-CZM-19100 Crimping pliers for 2,5 ; 4; 6mm 2/12 wire sizes | R8,015.32 |
| 32.6024 | A plastic PV-MS Open-end spanner set | R100.00 |



| Sealing Caps MC4 | | |
|------------------|---|---------------|
| 32.0716 | Suitable for socket side, PV-BVK4 and MC4 | R15.26 |
| 32.0717 | Suitable for plug side, PV-SVK4 and MC4 | R15.26 |





AC PROTECTION BOX

Solar PV – AC Combiner Board

- Designed, manufactured and tested to PV system requirements
- Enclosure: IP54 – IP68
- Manufactured according to SANS10142 standards
- Tested through an ISO 9001 approved quality management system
- SABS Approved enclosure
- IEC Approved equipment

Optional:

- Type I & II Surge protection
- Intelligent Monitoring capabilities
- SABS Approved metering equipment can be integrated.

Information Required to Manufacture:

- System size
- Type of inverters
- Number of inverters
- Fault level required
- Type of enclosure required:
Indoor/Outdoor
Wall mounted/Floor standing



WEATHER STATION

HP2000 Weather Professional Station

- Size:195*138*20mm
- TFT colour display
- Battery life: More than 12 months
- Upload weather data automatically
- Lux Meter (solar power index)
- SD card memory



ORDER CODE: HP2000

PRICE: R 4,411.00

Specification:

- Indoor temperature range: -40°C to 60°C
- Outdoor temperature range: -40°C to 60°C
- Temperature accuracy: +/-1.0°C
- Indoor humidity range: 1% to 95%RH
- Humidity accuracy: +/-5 %
- Rain volume display: 0-9999 mm
- Wind speed: 0-160 km/h
- Pressure range: 700-1100 hpa



INTEGRATED PHOTOVOLTAIC DC PROTECTION & MONITORING EQUIPMENT

DC COMBINER BOX



FEATURES

- 12 String Input
(16,18,20,24 String Alternative Options)
- Surge Protector
- Up to 400A Disconnect Switch with IP65 Internal Handle
- IP66 SMC Enclosure With Hinged Lid
- Individual Blown Fuse Led Indicator
- Stainless Steel Mount Brackets

Monitoring Option

- Modbus RS485 Interface
- Individual Current Monitoring Of Each String On Modbus
- Surge Protection Health Monitor On Modbus
- Voltage Monitoring
- Internal Temperature Monitoring
- Internal Space Heater (option)

PROTECTION BOX



FEATURES

- **Enclosure:** IP65
- **Dimensions (mm):** 300H X 230W X 130D
- **Weight (g):** 2.6kg
- **No of fuses:** 5
- **Fuse Rating:** 1000Vdc/30A
- **Fuses:** 10,3 x 38 Sizes 6A-25A
- **Surge Protection:** Type 2
- **Surge Protection Voltage:** 1000Vdc
- **MC4 Connectors:** 5 Positive / 5 Negative

| PART NUMBER | DESCRIPTION | PRICE |
|--|------------------------------|--------------------|
| AGESOLAR SB24 | SOLAR STRING BOX - 24 STRING | R 27,462.51 |
| AGESOLAR SB20 | SOLAR STRING BOX - 20 STRING | R 23,093.00 |
| AGESOLAR SB18 | SOLAR STRING BOX - 18 STRING | R 21,262.20 |
| AGESOLAR SB16 | SOLAR STRING BOX - 16 STRING | R 19,949.58 |
| AGESOLAR SB12 | SOLAR STRING BOX - 12 STRING | R 16,393.34 |
| <i>NOTE: ABOVE PRICING INCLUDES MONITORING</i> | | |

| PART NUMBER | DESCRIPTION | PRICE |
|--------------|----------------------------------|-------------------|
| AGESOLAR PB2 | STRING PROTECTION BOX - 2 STRING | R 1,783.33 |
| AGESOLAR PB5 | STRING PROTECTION BOX - 5 STRING | R 2,472.00 |
| AGESOLAR PB6 | STRING PROTECTION BOX - 6 STRING | R 2,671.00 |
| AGESOLAR PB8 | STRING PROTECTION BOX - 8 STRING | R 3,200.00 |



SOLAR INSTALLATION SERVICES



Solar Installation Services

AGE Technologies offers a number of services in terms of installation and commissioning of solar systems. We pride ourselves with installations that is backed by high level engineering and design conducted by your clients. Our vision is to install and commission a system that exceeds the expectation of the end customer.

AGE has a number of reference sites completed to date* and continues to grow.

Services are, but not limited to:

- Installation Services
- Site Management and Supervision
- Project Management
- Commissioning

*Reference information available on request.

Solar Panel Arrays

Inverters



Installation @ Greenstone Mall



O&M

| Description | Asset Management | O&M Service | Service Level Agreements |
|---|------------------|-------------|--------------------------|
| 24/7 Callout Service Hotline | • | • | • |
| Remote Monitoring of Solar Power Plant | • | • | • |
| Network Operator Support | • | • | • |
| DC Health System Analysis and Reporting | • | • | • |
| Warranty and Guarantee Management | • | • | |
| Complete Repair Service with Site Management | • | • | |
| Complete Repair Service with Site Management, Including Spares Management and Control | • | • | |
| Module Cleaning | • | | |
| Vegetation Management | • | | |
| Grounds Maintenance | • | | |

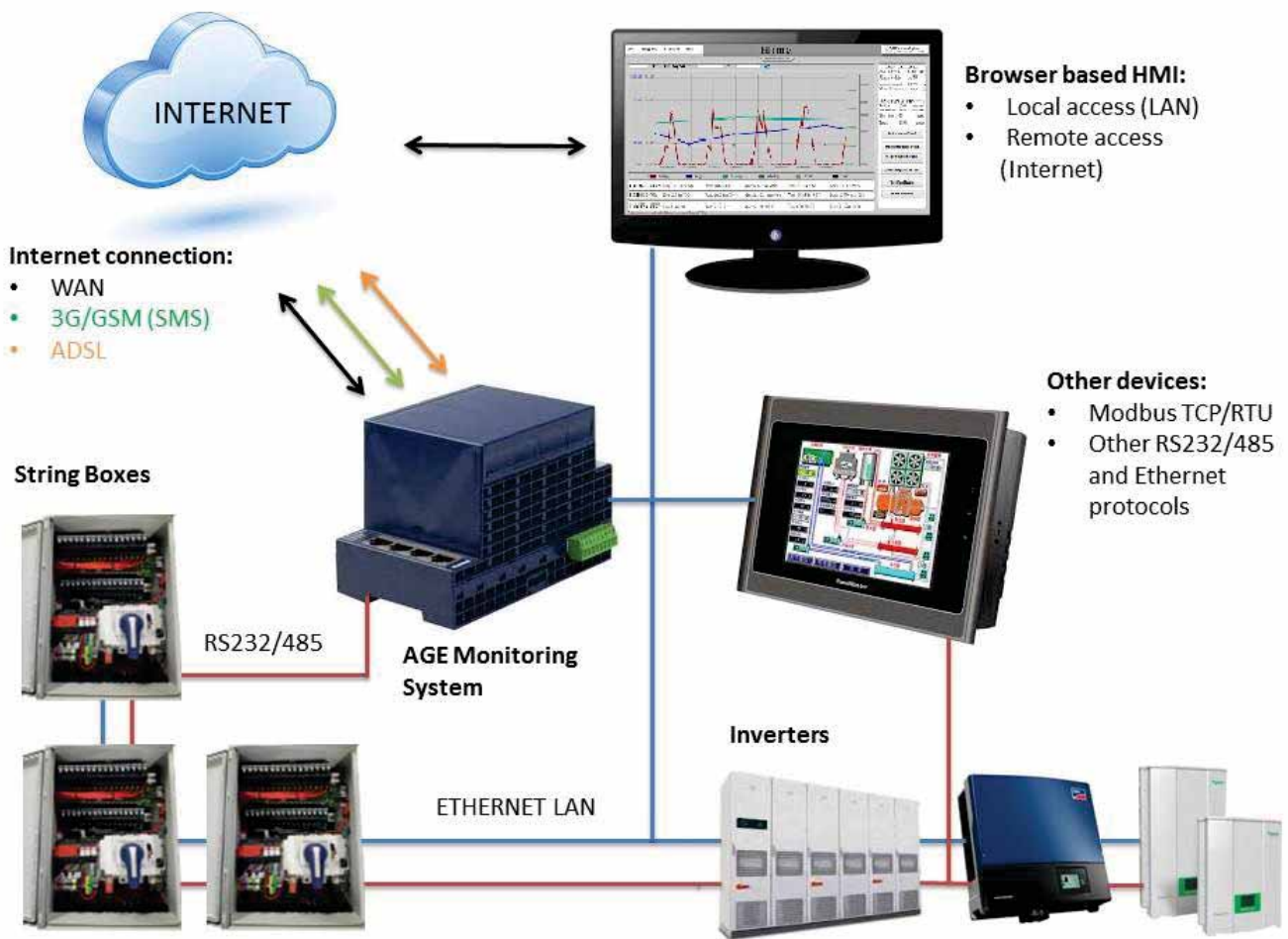


SOLAR MODULES

| SOLAR PV MODULES | | |
|------------------|-------------------|------------|
| Product Code | Description | Price/pm |
| 255Wp | 35mm frame | R 2,500.00 |
| 260Wp | 35mm frame | R 2,550.00 |
| 300Wp | 72cell 40mm frame | R 2,950.00 |
| 310Wp | 72cell 40mm frame | R 3,020.00 |



SOLAR MONITORING SYSTEM

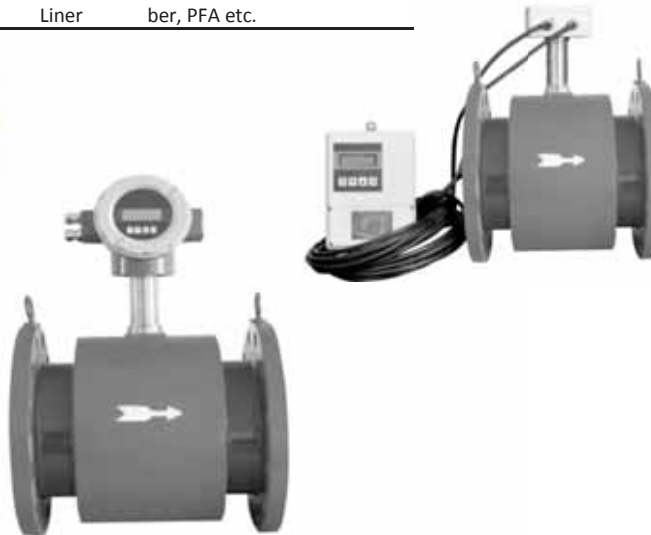




Electromagnetic Flow Meter

TECHNICAL DATA

| | |
|--------------------|---|
| Diameter | DN25~DN2600 |
| Electrode Material | 316L(stainless steel), HC, HB, Ti, Ta |
| Output Signals | 4~20mADC, load<= 750ohm, 0~3kHz, 5V with source and changeable width. RS485 interface |
| Accuracy | 0.3%, 0.5%, 1.0% |
| Operation Pressure | 1.0MPa, 1.6MPa, 4.0MPa, 16MPa (special) |
| Fluid Temperature | -20C~80C, 80C~130C, 130C~180C |
| Power Supply | 220VAC±10%, 50Hz±1Hz, 24VDC±10% |
| Materials of Liner | PTFE, soft rubber, hard rubber, PFA etc. |



PERFORMANCE & FEATURES

- Simple construction, no moving parts and long operational life
- No obstructions in the flow, no pressure loss or fluid clogging
- No mechanical inertia, quick response and good stability.
- Measuring accuracy not influenced by physical parameters such as temperature, viscosity, density and pressure.
- Employ Teflon or rubber linings and choice of electrode material such as Hastelloy C, Hastelloy B, 316L, Titanium for different mediums.
- EEPROM memory for safe and reliable protection of memory.
- Integral type flow meters and remote type flow meters.
- LCD back light display

| ITEM CODE | DESCRIPTION | PRICE |
|-----------|---|-------------|
| HHD-15 | MagFlow-0.32~6.36 m ³ /h | R 12,000.00 |
| HHD-20 | MagFlow-0.57~11.30 m ³ /h | R 12,000.00 |
| HHD-25 | MagFlow-0.88~17.66 m ³ /h | R 11,500.00 |
| HHD-32 | MagFlow-1.45~28.94 m ³ /h | R 11,750.00 |
| HHD-40 | MagFlow-2.26~45.22 m ³ /h | R 11,775.00 |
| HHD-50 | MagFlow-3.53~70.65 m ³ /h | R 11,800.00 |
| HHD-65 | MagFlow-5.97~119.40 m ³ /h | R 12,225.00 |
| HHD-80 | MagFlow-9.04~180.86 m ³ /h | R 12,750.00 |
| HHD-100 | MagFlow-14.13~282.60 m ³ /h | R 14,225.00 |
| HHD-125 | MagFlow-22.08~441.56 m ³ /h | R 15,200.00 |
| HHD-150 | MagFlow-31.79~635.85 m ³ /h | R 17,050.00 |
| HHD-200 | MagFlow-56.52~1130.40 m ³ /h | R 21,175.00 |
| HHD-250 | MagFlow-88.31~1766.25 m ³ /h | R 23,850.00 |
| HHD-300 | MagFlow-127.17~2543.40 m ³ /h | R 29,625.00 |
| HHD-350 | MagFlow-173.09~3461.85 m ³ /h | R 37,150.00 |
| HHD-400 | MagFlow-226.08~4521.60 m ³ /h | R 44,075.00 |
| HHD-450 | MagFlow-286.31~5722.65 m ³ /h | R 51,100.00 |
| HHD-500 | MagFlow-353.25~7065.00 m ³ /h | R 59,925.00 |
| HHD-600 | MagFlow-508.68~10173.60 m ³ /h | R 68,500.00 |

All Flow meters below are basic units only.
We can measure Flow up to 3000mm



COMPLETE INSTRUMENT CATALOGUE AVAILABLE ON WEBSITE



Wireless Flow Meters

| ITEM CODE | DESCRIPTION / TECHICAL DATA | PRICE | ITEM CODE | DESCRIPTION / TECHICAL DATA | PRICE |
|---|---|-------------|-----------------------------|--|-------------|
| Wireless Mag Flow with GPRS | | | Wireless Flow meters | | |
| Magnetic flow meter DN150 (Battery power) | <i>Nominal:</i> DN150~300mm <i>Liner material:</i> PTFE <i>Structure type:</i> Remote <i>Electrode material:</i> SUS316L | R 23,592.00 | Magnetic flow meter DN15 | <i>Nominal:</i> DN15~50mm <i>Liner material:</i> Teflon <i>Structure type:</i> Integral Type <i>Electrode material:</i> SUS316L | R 17,592.00 |
| Magnetic flow meter DN200 (Battery power) | <i>Installation:</i> Flange <i>Accuracy:</i> ±0.5% <i>Protection class:</i> IP68 <i>Output:</i> 4-20mA,GPRS | R 24,792.00 | Magnetic flow meter DN25 | <i>Installation:</i> Flange type <i>Accuracy:</i> ±0.5% <i>Protection class:</i> IP65 <i>Output:</i> 4-20mA,GSM | R 17,592.00 |
| Magnetic flow meter DN250 (Battery power) | <i>Power supply:</i> Battery power 3.6V, Extra12V <i>Flow rate:</i> 0.5~15m/s | R 30,384.00 | Magnetic flow meter DN32 | <i>Power supply:</i> Battery 3.6V, Extra 12V for GSM <i>Flow rate:</i> 0.5~15m/s <i>Display:</i> Local flow rate, Totalizer, Flow velocity | R 17,592.00 |
| Magnetic flow meter DN300 (Battery power) | <i>Display:</i> Local flow rate, Totalizer, Flow velocity | R 39,192.00 | Magnetic flow meter DN40 | | R 17,592.00 |
| Magnetic flow meter DN350 | <i>Nominal:</i> DN350~700mm <i>Liner material:</i> PTFE <i>Structure type:</i> Remote <i>Electrode material:</i> SUS316L | R 41,184.00 | Magnetic flow meter DN50 | | R 18,384.00 |
| Magnetic flow meter DN400 | <i>Installation:</i> Flange <i>Accuracy:</i> ±0.5% <i>Protection class:</i> IP68 <i>Output:</i> 4-20mA,GPRS | R 45,192.00 | Magnetic flow meter DN65 | | R 18,792.00 |
| Magnetic flow meter DN500 | <i>Power supply:</i> AC220V/DC24V <i>Display:</i> Local flow rate, Totalizer, Flow velocity | R 54,792.00 | Magnetic flow meter DN80 | | R 19,200.00 |
| Magnetic flow meter DN700 | | R 71,184.00 | Magnetic flow meter DN100 | | R 19,992.00 |
| | | | Magnetic flow meter DN125 | | R 21,192.00 |
| | | | Magnetic flow meter DN150 | | R 22,392.00 |
| | | | Magnetic flow meter DN200 | | R 25,992.00 |
| | | | Magnetic flow meter DN250 | <i>Nominal:</i> DN65~1000mm <i>Liner material:</i> Neoprene <i>Structure type:</i> Integral type <i>Electrode material:</i> SUS316L | R 28,392.00 |
| | | | Magnetic flow meter DN300 | <i>Installation:</i> Flange type <i>Accuracy:</i> ±0.5% <i>Protection class:</i> IP65 <i>Output:</i> 4-20mA,GSM | R 32,784.00 |
| | | | Magnetic flow meter DN350 | <i>Power supply:</i> Battery 3.6V, Extra12V for GSM <i>Flow rate:</i> 0.5~15m/s <i>Display:</i> Local flow rate, Totalizer, Flow velocity | R 35,184.00 |
| | | | Magnetic flow meter DN400 | | R 37,584.00 |
| | | | Magnetic flow meter DN450 | | R 40,392.00 |
| | | | Magnetic flow meter DN500 | | R 43,584.00 |
| | | | Magnetic flow meter DN600 | | R 53,592.00 |
| | | | Magnetic flow meter DN700 | | R 57,984.00 |
| | | | Magnetic flow meter DN800 | | R 67,984.00 |
| | | | Magnetic flow meter DN900 | | R 79,992.00 |
| | | | Magnetic flow meter DN1000 | | |



COMPLETE INSTRUMENT CATALOGUE AVAILABLE ON WEBSITE



Vortex Flow Meter



Specifications

| | | |
|---------------------------------|--------------------------------------|--|
| Standard | Q/320831AHH003-2004 JB/T6807-93 | |
| Medium | Gas, liquid, steam | |
| Diameter | Flange holding (wafer) type | 25, 32, 50, 80, 100, 150, 200, 250, 300 |
| | Flange connection type | 100, 150, 200, 250, 300 |
| Measuring Range | Normal range of flow speed | Reynold number $1.5 * 10^4 \sim 4 * 10^6$; gas 5~50m/s; liquid 0.5~7m/s |
| | Normal range of flow rate | Liquid, gas flow range-sheet2; steam flow range-sheet 3 |
| Accuracy | Class 1.5 | |
| Temperature | Normal temperature -25~100 | |
| | High temperature -25~150 -25~250 | |
| Output Signal | Pulse voltage output signal | Square wave pulse |
| | Current remote signal | 4 ~ 20 mA, transmission distance 100m |
| Environmental Conditions | Temperature: -25~+55 humidity: 5~90% | |
| Material | SS, Aluminum Alloy | |
| Power | 24 V DC or lithium battery 3.6V | |
| Ex | Exd II BT4 | |
| Protection Class | IP65 | |

| Nominal Diameter | Flow Range | Part Number | Price | Price |
|------------------|-------------------------------|-------------|-------------------|---------------|
| (DN mm) | (m ³ /h) | | L1 | L2 |
| | Liquid or Gas | | Wafer Type | Flange |
| 15 | | HLUG-15 | P.O.R | P.O.R |
| 20 | | HLUG-20 | P.O.R | P.O.R |
| 25 | 1~12 (L) 10~100 (G) | HLUG-25 | R 13,000.00 | R 15,500.00 |
| 32 | 1.5~23 (L) 15~150 (G) | HLUG-32 | R 13,000.00 | R 16,250.00 |
| 40 | 2.4~32 (L) 23~230 (G) | HLUG-40 | R 13,000.00 | R 16,750.00 |
| 50 | 4~50 (L) 35~350 (G) | HLUG-50 | R 13,000.00 | R 17,375.00 |
| 65 | 6.3~84 (L) 60~600 (G) | HLUG-65 | R 15,000.00 | R 18,375.00 |
| 80 | 10~130 (L) 90~900 (G) | HLUG-80 | R 15,750.00 | R 18,750.00 |
| 100 | 20~200 (L) 140~1400 (G) | HLUG-100 | R 16,375.00 | R 21,250.00 |
| 125 | 31~310 (L) 220~2200 (G) | HLUG-125 | R 17,875.00 | R 23,500.00 |
| 150 | 45~450 (L) 300~3000 (G) | HLUG-150 | R 19,575.00 | R 27,125.00 |
| 200 | 80~800 (L) 550~5500 (G) | HLUG-200 | R 22,125.00 | R 32,250.00 |
| 300 | 150~1500 (L) 880~8800 (G) | HLUG-300 | P.O.R | P.O.R |



COMPLETE INSTRUMENT CATALOGUE AVAILABLE ON WEBSITE



Liquid Turbine Flow Meter

| Nominal Diameter (DN mm) | Flow Range (m ³ /h) | Part Number | Price ZAR | | | |
|-------------------------------|-------------------------------------|-------------|-----------------------------|------------------------------|---------------------------|----------------------------|
| | | | N | A | B | C |
| | Liquid | | Pulse Out, No Indication | 4-20mA Out, No Indication | LCD Display, No Output | LCD Display, 4-20mA Out |
| 4 | 0.04 ~ 0.25 | HLWGY-04 | R 5 635.00 | R 6 739.00 | R 7 498.00 | R 7 797.00 |
| 6 | 0.1 ~ 0.6 | HLWGY-06 | R 5 704.00 | R 6 808.00 | R 7 567.00 | R 7 866.00 |
| 10 | 0.2 ~ 1.2 | HLWGY-10 | R 5 750.00 | R 6 900.00 | R 6 655.00 | R 7 935.00 |
| 15 | 0.6 ~ 6 | HLWGY-15 | R 3 680.00 | R 4 439.00 | R 5 911.00 | R 6 210.00 |
| 20 | 0.8 ~ 8 | HLWGY-20 | R 3 726.00 | R 4 485.00 | R 5 957.00 | R 6 256.00 |
| 25 | 1 ~ 10 | HLWGY-25 | R 3 956.00 | R 4 715.00 | R 6 187.00 | R 6 440.00 |
| 32 | 1.5 ~ 15 | HLWGY-32 | R 5 037.00 | R 5 796.00 | R 7 268.00 | R 7 521.00 |
| 40 | 2 ~ 20 | HLWGY-40 | R 5 405.00 | R 6 164.00 | R 7 636.00 | R 7 935.00 |
| 50 | 4 ~ 40 | HLWGY-50 | R 5 589.00 | R 6 348.00 | R 7 820.00 | R 8 096.00 |
| 65 | 7 ~ 70 | HLWGY-65 | R 7 084.00 | R 7 820.00 | R 8 556.00 | R 8 855.00 |
| 80 | 10 ~ 100 | HLWGY-80 | R 7 636.00 | R 8 372.00 | R 9 108.00 | R 9 338.00 |
| 100 | 20 ~ 200 | HLWGY-100 | R 8 970.00 | R 9 706.00 | R 10 442.00 | R 10 672.00 |
| 125 | 25 ~ 250 | HLWGY-125 | R 11 500.00 | R 12 236.00 | R 12 995.00 | R 13 110.00 |
| 150 | 30 ~ 300 | HLWGY-150 | R 14 536.00 | R 15 272.00 | R 16 008.00 | R 16 330.00 |
| 200 | 80 ~ 800 | HLWGY-200 | R 20 010.00 | R 20 746.00 | R 21 482.00 | R 21 735.00 |

Overview

The HLWGY series Turbine Flow meters have a simple structure, high accuracy, good repetitiveness, fast response time and easy maintenance. It is widely used for liquids which are not corrosive to stainless steel, do not have fibre or particles. The liquid must also have a kinematic viscosity less than $50 \times 10^{-6} \text{m}^2/\text{s}$

Features

- High accuracy: $\pm 1\%$, $\pm 0.5\%$, $\pm 0.2\%$
- Good repetitiveness: $0.05\% \sim 0.2\%$
- Output of pulse frequency signal, suitable for totalizer and connection with PC; no zero shift and interference resistant
- High frequency signal (3~4 kHz), strong signal resolution
- Turndown: 1:20, 1:10
- Compact structure & easy maintenance



COMPLETE INSTRUMENT CATALOGUE AVAILABLE ON WEBSITE



Gas Turbine Flow Meter

| Nominal Diameter (DNmm) | Flow Range (m ³ /h) | Part Number | Price | | | | |
|------------------------------|-------------------------------------|-------------|-----------------------------|------------------------------|---------------------------|----------------------------|---------------------------------------|
| | | | N | A | B | C | D |
| | Liquid | | Pulse Out, No Indication | 4-20mA Out, No Indication | LCD Display, No Output | LCD Display, 4-20mA Out | Same as C Plus T&P Compensation |
| 25 | 3 ~ 30 | HLWQ-25 S1 | R 10 304.00 | R 11 615.00 | R 14 030.00 | R 14 720.00 | R 23 115.00 |
| | 4 ~ 40 | HLWQ-25 S2 | R 10 304.00 | R 11 615.00 | R 14 030.00 | R 14 720.00 | R 23 115.00 |
| 40 | 5 ~ 50 | HLWQ-40 S1 | R 11 224.00 | R 12 535.00 | R 15 134.00 | R 15 755.00 | R 24 035.00 |
| | 8 ~ 80 | HLWQ-40 S2 | R 11 224.00 | R 12 535.00 | R 15 134.00 | R 15 755.00 | R 24 035.00 |
| 50 | 10 ~ 100 | HLWQ-50 S1 | R 11 914.00 | R 13 225.00 | R 15 824.00 | R 16 445.00 | R 24 794.00 |
| | 15 ~ 150 | HLWQ-50 S2 | R 11 914.00 | R 13 225.00 | R 15 824.00 | R 16 445.00 | R 24 794.00 |
| 65 | 15 ~ 200 | HLWQ-65 | R 12 995.00 | R 14 214.00 | R 16 790.00 | R 17 365.00 | R 25 760.00 |
| 80 | 15 ~ 3100 | HLWQ-80 | R 14 030.00 | R 15 364.00 | R 17 825.00 | R 18 515.00 | R 26 818.00 |
| 100 | 20 ~ 400 | HLWQ-100 | R 17 710.00 | R 19 021.00 | R 21 689.00 | R 22 356.00 | R 30 981.00 |
| 125 | 20 ~ 800 | HLWQ-125 | R 21 022.00 | R 22 356.00 | R 25 001.00 | R 25 668.00 | R 34 293.00 |
| 150 | 50 ~ 1000 | HLWQ-150 | R 23 000.00 | R 24 334.00 | R 27 025.00 | R 27 715.00 | R 36 294.00 |
| 200 | 150 ~ 2000 | HLWQ-200 | R 33 235.00 | R 34 500.00 | R 37 168.00 | R 37 835.00 | R 46 483.00 |
| 250 | 200 ~ 3000 | HLWQ-250 | R 54 234.00 | R 55 545.00 | R 58 190.00 | R 58 880.00 | R 67 505.00 |
| 300 | 250 ~ 4000 | HLWQ-300 | R 75 256.00 | R 76 567.00 | R 79 235.00 | R 79 925.00 | R 88 550.00 |



CONVERSION TABLE : MASS FLOW UNITS

| Kilogram/hour | Pound/hour | Kilogram/second | Ton/hour |
|---------------|------------|-----------------|----------|
| kg/h | lb/hour | kg/s | t/h |
| 1 | 2.204586 | 0.000278 | 0.001 |
| 0.4536 | 1 | 0.000126 | 0.000454 |
| 3600 | 7936.508 | 1 | 3.6 |
| 1000 | 2204.586 | 0.277778 | 1 |



Ultrasonic Flow Meter

HG50 Metal Tube Float Flowmeter -- Rotameter

| Specification & Diameter | | | DN15 | DN25 | DN50 | DN80 | DN100 | DN150 | DN200 |
|--------------------------|-------------|---|----------|----------|----------|----------|----------|----------|----------|
| | Material | Output | | | | | | | |
| | SS 304 | Local Indication | R 6 580 | R 6 933 | R 8 578 | R 11 750 | R 13 771 | R 17 625 | R 25 991 |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 10 246 | R 10 810 | R 12 455 | R 15 275 | R 16 920 | R 21 738 | R 31 725 |
| Vertical Mounting | 316 | Local Indication | R 7 520 | R 7 990 | R 11 045 | R 14 570 | R 16 121 | R 21 738 | R 31 725 |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 10 810 | R 11 633 | R 14 453 | R 17 766 | R 19 975 | R 25 662 | R 36 778 |
| | 316L | Local Indication | R 8 108 | R 8 930 | R 11 515 | R 15 181 | R 17 766 | R 23 688 | R 36 778 |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 11 398 | R 12 455 | R 15 087 | R 18 800 | R 21 385 | R 27 965 | R 41 125 |
| | PTFE Lining | Local Indication | R 9 518 | R 10 810 | R 12 643 | R 16 920 | R 19 035 | /// | /// |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 13 278 | R 14 688 | R 16 920 | R 20 680 | R 23 688 | /// | /// |
| Horizontal Mounting | SS 304 | Local Indication | R 7 990 | R 8 813 | R 10 928 | R 14 100 | R 17 038 | /// | /// |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 11 633 | R 12 455 | R 14 453 | R 17 625 | R 20 257 | /// | /// |
| | 316 | Local Indication | R 9 048 | R 10 951 | R 16 685 | R 19 035 | R 22 372 | /// | /// |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 12 690 | R 14 688 | R 20 398 | R 23 030 | R 26 649 | /// | /// |
| | 316L | Local Indication | R 9 635 | R 11 797 | R 18 565 | R 21 385 | R 23 030 | /// | /// |
| | | 4-20mA output, LCD Indicates instant/ Accumulative flow | R 13 278 | R 15 510 | R 22 372 | R 25 333 | R 27 025 | /// | /// |





Ultrasonic Level Transmitters



| Integral type Ultrasonic Level | | | |
|--|--------------|-------------|--|
| Specification | Model | Price | Remarks |
| Non-explosion proof Integral type 2 wire 3 wire 4 wire | 4m | R 8,460.00 | For 2 wire & 3 wire: 24V DC power supply, 4- 20mA DC output, RS485/Modbus is available for 3 wire. For 4 wire: 24V DC or 220V AC power supply, 4- 20mA DC output, upper limit / Lower limit relay output available. Extra R400.00 for cast aluminium housing. For range 4m / 6m / 8m, if PTFE probe required then extra R 2 100.00. |
| | 6m | R 8,930.00 | |
| | 8m | R 9,752.50 | |
| | 12m | R 10,810.00 | |
| | 15m | R 12,643.00 | |
| | 20m | R 14,452.50 | |
| | 30m | R 16,262.00 | |
| | 40m | R 17,977.50 | |
| Explosion proof | HGUL-TI-4 | R 11,750.00 | Cast aluminium housing, aluminium alloy probe housing, PVC probe |
| ExiallCT6 | HGUL-TI(F)-4 | R 14,617.00 | Cast aluminium housing, Stainless steel probe housing, PTFE probe |
| Integral type 2 wire | HGUL-TI-8 | R 12,972.00 | Cast aluminium housing, Aluminium alloy probe housing, PVC probe |
| | HGUL-TI(F)-8 | R 15,862.50 | Cast aluminium housing, Stainless steel probe housing, PTFE probe |
| Remote type Ultrasonic Level | | | |
| Specification | Model | Price | Remarks |
| Remote type Probe | 4m | R 4,347.50 | Default cable length: 10m; extra R30/m. For range 4m /6m / 8m, if PTFE probe is required, extra R 2 000.00. |
| | 6m | R 4,700.00 | |
| | 8m | R 4,935.00 | |
| | 12m | R 5,757.50 | |
| | 15m | R 6,415.50 | |
| | 20m | R 8,389.50 | |
| | 30m | R 10,810.00 | |
| | 40m | R 12,690.00 | |
| Remote type Main Unit | HGUL-F | R 4,841.00 | Wall-mounted type: Extra R 700.00 for RS485. R1 400.00 for Modbus; R 2 020.00 for HART (4 wire); R 2 500.00 for Profibus-DP; R 700.00 for 4 relay output. R 1 400.00 for 6 relay output. ABS material. |
| | HGUL-M | R 5,405.00 | |
| | HGUL-G | R 6,110.00 | |



Diffusive Silicon Pressure & Level Transmitters

Diffusive Silicon Type Pressure / Level Transmitters

| Product | Price | Remark |
|--|------------|---|
| 308 Diffusive Silicon | R 2,448.00 | Heat Sink: R 528.00 Flange Diaphragm: same as that of capacitance type Pointer Display: R 192.00 LCD Display: R 528.00 Smart with HART: R 2,112.00 |
| 316 Diffusive Silicon Pressure Transmitter | R 2,160.00 | Heat Sink: R 528.00 LCD Display: R 528.00 |
| Throw-in Type Diffusive Silicon Level Transmitter (Including 5m Cable) | R 2,760.00 | SS Flange: R 360.00 Smart with HART: R 2,112.00 |
| Radio Frequency Capacitance Type Level Transmitter (Including 5m SS) | R 3,408.00 | SS Flange: R 360.00 Cable: R 36.00/m |



FEATURES

- Span turndown ratio of 20:1
- Null point and full scale compensation and correction function
- Multi-point calibration of the output current
- Self-diagnosed function, output fault warnings
- Silicon piezo-resistive sensor
- Dry ceramic capacitance sensor

EX-RATED

| Product | Price | Remark |
|---|-----------------|--|
| Smart Pressure Transmitter | From R 6,600.00 | S series smart pressure transmitters are precise and digital. The microprocessor is the core of the electrical circuit and along with advanced digital isolation technology, the instruments are highly stable. With digital compensation technology the precision is greatly improved, while decreasing temperature drift |
| Smart Differential Pressure Transmitter | From R 9,925.00 | |



Capacitance Type Pressure Transmitter

| Product | Model | Price | Remark | |
|-----------------------------------|-----------------------------------|---|--|--|
| Pressure Transmitter | SHHGP-1300 to 1800 | R 6,875.00 | 1) All the left prices are Basic Prices 2) Smart type transmitters 3) Default structure material: F22--316 L SS 4) LCD display; deduct R440.00 if without display | |
| | SHHGP-1200/1900/1000 | R 7,250.00 | | |
| Absolute Pressure Transmitter | SHHAP-2400 to 2800 | R 7,250.00 | | |
| Differential Pressure Transmitter | SHHDP-3300 to 8800 | R 7,250.00 | | |
| | SHHDR-1100 to 3200 | R 7,625.00 | | |
| | SHHHP-7400 to 9500 | R 7,625.00 | | |
| Sub Pressure Transmitter | SHHSP-0200 | R 7,625.00 | | |
| | SHHSP-0300 to 0500 | R 7,250.00 | | |
| Flange Type Level Transmitter | 3" Flange (Diaphragm Seal) | Basic Price + R 2,500.00 | | |
| | 4" Flange (Diaphragm Seal) | Basic Price + R 2,940.00 | | |
| DPT with Remote Diaphragm Seal | 2 * 3" Flange (Diaphragm Seal) | Basic Price + R 5,000.00 | | |
| | 2 * 4" Flange (Diaphragm Seal) | Basic Price + R 5,880.00 | | |
| | Extended Diaphragm Seal | Basic P+ R 5,000.00 / R 5,880.00+R 300.00 | | |
| | Special Isolation Diaphragm (F23) | R 725.00 | Hastelloy C Monel Tantalum Hastelloy B | |
| | Special Isolation Diaphragm (F24) | R 725.00 | | |
| | Special Isolation Diaphragm (F25) | R 1,275.00 | | |
| | Special Isolation Diaphragm (F26) | R 725.00 | | |
| Capillary Tube | ≤ 5 m | R 200.00 | Hastelloy B | |
| | 6- 10 m | R 475.00 | | |
| | 11 – 15 m | R 800.00 | | |
| Waste-shaped Flange | Stainless Steel | R 150.00 | | |
| Isolation Explosion | | R 725.00 | | |





Paperless Recorders

| Item Code | Description | Price |
|-----------|--|------------|
| HGPR-8100 | Paperless Recorders - Std unit with 1 x input, 1 x Output, No Alarm and No Communication. Add R311.00 per extra input channel up to 21 Channels. Add R 222.35 per output channel up to 12 channels. Add R 350.00 for RS232/RS485 Communication. | R 9 400.00 |
| HGPR-8600 | Paperless Recorders - Std unit with 1 x input, 1 x Output, No Alarm and No Communication. SD card extension function. USB data transfer. Add R311.00 per extra input channel up to 21 Channels. Add R 222.35 per output channel up to 12 channels. Add R 350.00 for RS232/RS485 Communication. | R 9 870.00 |
| HGPR-8700 | Paperless Recorders - Std unit with 1 x input, 1 x Output, No Alarm and No Communication. SD card extension function. USB data transfer. Add R311.00 per extra input channel up to 21 Channels. Add R 222.35 per output channel up to 12 channels. Add R 350.00 for RS232/RS485 Communication. | R 9 870.00 |



Coriolis Mass Flow Meter

| Item Code | Description | Price |
|-----------------|--|--------------|
| HG-CMF I- DN1 | Coriolis Mass Flow Meter - 0-0.04(t/h) - 30Mpa | R 58 750.00 |
| HG-CMF I- DN3 | Coriolis Mass Flow Meter - 0-0.35(t/h) - 30Mpa | R 58 750.00 |
| HG-CMF I- DN6 | Coriolis Mass Flow Meter - 0-0.7(t/h) - 30Mpa | R 61 100.00 |
| HG-CMF I- DN10 | Coriolis Mass Flow Meter - 0-1.2(t/h) - 30Mpa | R 66 270.00 |
| HG-CMF I- DN15 | Coriolis Mass Flow Meter - 0-6.4(t/h) - 4Mpa | R 71 322.50 |
| HG-CMF I- DN25 | Coriolis Mass Flow Meter - 0-16(t/h) - 4Mpa | R 76 375.00 |
| HG-CMF I- DN40 | Coriolis Mass Flow Meter - 0-40(t/h) - 4Mpa | R 81 451.00 |
| HG-CMF I- DN50 | Coriolis Mass Flow Meter - 0-65(t/h) - 4Mpa | R 86 597.50 |
| HG-CMF I- DN80 | Coriolis Mass Flow Meter - 0-160(t/h) - 2.5Mpa | R 97 901.00 |
| HG-CMF I- DN100 | Coriolis Mass Flow Meter - 0-250(t/h) - 2.5Mpa | R 108 100.00 |
| HG-CMF I- DN150 | Coriolis Mass Flow Meter - 0-550(t/h) - 2.5Mpa | R 129 250.00 |





Conversion Tables

VOLUME UNITS

| Centimeter cube | Meter cube | Liter | Inch cube | Foot cube | US gallons | Imperial gallons | US barrel (oil) |
|-----------------|----------------|----------|-----------------|-----------------|------------|------------------|-----------------|
| cm ³ | m ³ | ltr | in ³ | ft ³ | US gal | Imp. gal | US brl |
| 1 | 0.000001 | 0.001 | 0.061024 | 0.000035 | 0.000264 | 0.00022 | 0.000006 |
| 1000000 | 1 | 1000 | 61024 | 35 | 264 | 220 | 6.29 |
| 1000 | 0.001 | 1 | 61 | 0.035 | 0.264201 | 0.22 | 0.00629 |
| 16.4 | 0.000016 | 0.016387 | 1 | 0.000579 | 0.004329 | 0.003605 | 0.000103 |
| 28317 | 0.028317 | 28.31685 | 1728 | 1 | 7.481333 | 6.229712 | 0.178127 |
| 3785 | 0.003785 | 3.79 | 231 | 0.13 | 1 | 0.832701 | 0.02381 |
| 4545 | 0.004545 | 4.55 | 277 | 0.16 | 1.20 | 1 | 0.028593 |
| 158970 | 0.15897 | 159 | 9701 | 6 | 42 | 35 | 1 |

VOLUMETRIC LIQUID FLOW UNITS

| Liter/second | Liter/minute | Meter cube/hour | Foot cube/minute | Foot cube/hour | US gallons/minute | US barrels (oil)/day |
|--------------|--------------|--------------------|----------------------|---------------------|-------------------|----------------------|
| L/sec | L/min | M ³ /hr | ft ³ /min | ft ³ /hr | gal/min | US brl/d |
| 1 | 60 | 3.6 | 2.119093 | 127.1197 | 15.85037 | 543.4783 |
| 0.016666 | 1 | 0.06 | 0.035317 | 2.118577 | 0.264162 | 9.057609 |
| 0.277778 | 16.6667 | 1 | 0.588637 | 35.31102 | 4.40288 | 150.9661 |
| 0.4719 | 28.31513 | 1.69884 | 1 | 60 | 7.479791 | 256.4674 |
| 0.007867 | 0.472015 | 0.02832 | 0.01667 | 1 | 0.124689 | 4.275326 |
| 0.06309 | 3.785551 | 0.227124 | 0.133694 | 8.019983 | 1 | 34.28804 |
| 0.00184 | 0.110404 | 0.006624 | 0.003899 | 0.2339 | 0.029165 | 1 |

HIGH PRESSURE UNITS

| Bar | Pound/square inch | Kilopascal | Megapascal | Kilogram force/centimeter square | Millimeter of mercury | Atmospheres |
|----------|-------------------|------------|------------|----------------------------------|-----------------------|-------------|
| bar | psi | kPa | MPa | kgf/cm ² | mm Hg | atm |
| 1 | 14.50326 | 100 | 0.1 | 1.01968 | 750.0188 | 0.987167 |
| 0.06895 | 1 | 6.895 | 0.006895 | 0.070307 | 51.71379 | 0.068065 |
| 0.01 | 0.1450 | 1 | 0.001 | 0.01020 | 7.5002 | 0.00987 |
| 10 | 145.03 | 1000 | 1 | 10.197 | 7500.2 | 9.8717 |
| 0.9807 | 14.22335 | 98.07 | 0.09807 | 1 | 735.5434 | 0.968115 |
| 0.001333 | 0.019337 | 0.13333 | 0.000133 | 0.00136 | 1 | 0.001316 |
| 1.013 | 14.69181 | 101.3 | 0.1013 | 1.032936 | 759.769 | 1 |

LOW PRESSURE UNITS

| Meter of water | Foot of water | Centimeter of mercury | Inches of mercury | Inches of water | Pascal |
|-------------------|--------------------|-----------------------|-------------------|--------------------|--------|
| mH ₂ O | ftH ₂ O | cmHg | inHg | inH ₂ O | Pa |
| 1 | 3.280696 | 7.356339 | 2.896043 | 39.36572 | 9806 |
| 0.304813 | 1 | 2.242311 | 0.882753 | 11.9992 | 2989 |
| 0.135937 | 0.445969 | 1 | 0.39368 | 5.351265 | 1333 |
| 0.345299 | 1.13282 | 2.540135 | 1 | 13.59293 | 3386 |
| 0.025403 | 0.083339 | 0.186872 | 0.073568 | 1 | 249.1 |
| 0.000102 | 0.000335 | 0.00075 | 0.000295 | 0.004014 | 1 |



WIRE / TRUNKING / DIN RAILS

Panel Flex Wire

| ORDER CODE | DESCRIPTION | PRICE |
|------------|----------------------------------|-----------------|
| W503 BK | 1 mm BLACK FLEX WIRE /100m | R 159.00 |
| W503 BL | 1 mm BLUE FLEX WIRE /100m | R 159.00 |
| W503 BR | 1 mm BROWN FLEX WIRE /100m | R 159.00 |
| W503 G/Y | 1 mm GREEN/YELLOW FLEX WIRE/100m | R 159.00 |
| W503 GN | 1 mm GREEN FLEX WIRE /100m | R 159.00 |
| W503 GR | 1 mm GREY FLEX WIRE /100m | R 159.00 |
| W503 O | 1 mm ORANGE FLEX WIRE /100m | R 159.00 |
| W503 P | 1 mm PINK FLEX WIRE /100m | R 159.00 |
| W503 R | 1 mm RED FLEX WIRE /100m | R 159.00 |
| W503 V | 1 mm VIOLET FLEX WIRE /100m | R 159.00 |
| W503 WH | 1 mm WHITE FLEX WIRE /100m | R 159.00 |
| W503 Y | 1 mm YELLOW FLEX WIRE /100m | R 159.00 |

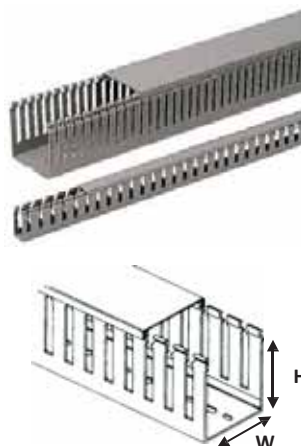


Bootlace, Glands & Utility Boxes

| ORDER CODE | DESCRIPTION | PRICE |
|-----------------------|--|-----------------|
| BOOTLACE | | |
| 9019080000 | 1mm red bootlace | R 0.21 |
| 9019120000 | 1.5mm bootlace | R 0.60 |
| 9021070000 | 2.5mm bootlace | R 0.26 |
| GLANDS (Metal) | | |
| 053500 | No .00 compression gland | R 51.13 |
| 0535-0 | No.0 compression glands | R 53.16 |
| 0503-0 | No.0 SWA glands | R 20.47 |
| 0535-1 | No.1 compression glands | R 83.44 |
| 050301 | No.1 SWA glands | R 26.46 |
| 0535-2 | No.2 compression glands | R 141.25 |
| 050302 | No.2 SWA glands | R 51.10 |
| 0535-3 | No.3 compression gland | R 215.11 |
| 050303 | No.3 SWA glands | R 77.50 |
| UTILITY BOXES | | |
| 102101 | CCG utility box size 1 Inner dim: 88mm Outer Dim: 118mm Entry Points: 4 | R 163.16 |
| 102102 | CCG utility box size 2 Inner dim: 123mm Outer Dim: 138mm Entry Points: 4 | R 238.50 |

TRUNKING

| ORDER CODE | DIMENSIONS W x H x L | PRICE |
|--------------------|-------------------------|-----------------|
| 40mm Height | | |
| 02579 | 40 x 40 x 2000mm | R 96.20 |
| 00837 | 60 x 40 x 2000mm | R 115.77 |
| 00838 | 80 x 40 x 2000mm | R 139.41 |
| 00845 | 100 x 40x 2000mm | R 181.79 |
| 60mm Height | | |
| 02580 | 40 x 60 x 2000mm | R 113.31 |
| 02583 | 60 x 60 x 2000mm | R 151.63 |
| 00839 | 80 x 60 x 2000mm | R 170.39 |
| 00840 | 100 x 60 x 2000mm | R 207.89 |
| 00843 | 120 x 60 x 2000mm | R 239.67 |



| ORDER CODE | DIMENSIONS W x H x L | PRICE |
|---------------------|-------------------------|-----------------|
| 80mm Height | | |
| 02581 | 40 x 80 x 2000mm | R 141.04 |
| 02584 | 60 x 80 x 2000mm | R 189.13 |
| 02586 | 80 x 80 x 2000mm | R 220.11 |
| 02588 | 100 x 80 x 2000mm | R 251.09 |
| 00841 | 120 x 80 x 2000mm | R 291.04 |
| 100mm Height | | |
| 02582 | 40 x 100 x 2000mm | R 167.14 |
| 02585 | 60 x 100 x 2000mm | R 219.31 |
| 02587 | 80 x 100 x 2000mm | R 259.26 |
| 02589 | 100 x 100 x 2000mm | R 289.41 |

DIN RAIL

| ORDER CODE | DIMENSIONS | PRICE |
|------------|------------------|-------------------|
| 0514570000 | Slotted Din Rail | R 51.53 pm |











TERMINALS



SCREW CLAMP TERMINAL BLOCKS

These Feed Through Terminal Blocks are the most versatile terminals for Control, Automation, Instrumentation and Power Distribution applications. A specially designed flexible foot enables easy mounting and dismounting from the mounting rail with the help of a screwdriver. These Terminal Blocks have marker holding recesses to accept marking tags for circuit identification. Cross connection can be achieved with the aid of shorting links / sleeves & screws. Insulation Material is Polyamide 66.

| | ORDER CODE | DESCRIPTION | PRICE |
|---|---|--|----------|
|  | Standard Feed Through Terminal Blocks (G or Tophat Rail) | | |
| | *CTS2.5UN | Terminal 0.5to2.5mm ² Wire , 5mm Pitch, 45mm H, 43mm W | R 4.50 |
| | *EP2.5/4UN | End Plate | R 1.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA741/10 | Insulated Pre-Assembled Shorting Link- 10 Way | R 16.00 |
| | CA741/100 | Insulated Pre-Assembled Shorting Link- 100 Way | R 150.00 |
| | CA717/10 | Insulated Comb - 10 Way | R 12.00 |
| | CA509/K5 | Terminal Marker | R 0.50 |
|  | Standard Feed Through Terminal Blocks (G or Tophat Rail) | | |
| | *CTS4UN | Terminal 0.5to4mm ² Wire , 6mm Pitch, 45mm H, 43mm W | R 5.20 |
| | *EP2.5/4UN | End Plate | R 1.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA742/100 | Insulated Pre-Assembled Shorting Link- 100 Way | R 150.00 |
| | CA713/10 | Insulated Comb - 10 Way | R 12.00 |
| | CA509/K6 | Terminal Marker | R 0.50 |
|  | Standard Feed Through Terminal Blocks (G or Tophat Rail) | | |
| | *CTS10U | Terminal 1.5to10mm ² Wire 10mm Pitch, 47mm H, 43mm W | R 5.30 |
| | *EP6/10U | End Plate | R 1.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA509/K10 | Terminal Marker | R 0.50 |
|  | Single Level Fuse Terminal Blocks with LED Indication (G or Tophat Rail) | | |
| | *CSFL4U(L) 24V | Terminal 0.5to4mm ² Wire , 8mm Pitch, 43mm H, 58mm W- Specify Voltage | R 49.50 |
| | EPCFL4U | End Plate | R 1.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA711/10 | Insulated Comb - 10 Way | R 12.00 |
| | CA509/K2 | Terminal Marker | R 0.50 |
|  | Double Level Fuse Terminal Blocks with LED Indication (G or Tophat Rail) | | |
| | *DDFL4UE | 24V Terminal 0.5to4mm ² Wire , 8mm Pitch, 66mm H, 88mm W | R 59.10 |
| | EPDDL4U | End Plate | R 2.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA711/10 | Insulated Comb - 10 Way | R 12.00 |
| | CA509/K2 | Terminal Marker | R 0.50 |
|  | Group Terminal Markers | | |
| | *GMH6 | Group Marker suitable for mounting on Din 15 / Din 32 / Din 35 Rails 9.5mm Pitch, 46.5mm H, 44.5 W | R 4.60 |
| | GMH7 | Group Marker suitable for mounting on Din 15 / Din 32 / Din 35 Rails 19.5mm Pitch, 46.5mm H, 44.5 W | R 6.10 |


NOTE: * PREFERRED STOCK ITEM




TERMINALS

SCREW CLAMP TERMINAL BLOCKS


These Feed Through Terminal Blocks are the most versatile terminals for Control, Automation, Instrumentation and Power Distribution applications. A specially designed flexible foot enables easy mounting and dismounting from the mounting rail with the help of a screwdriver. These Terminal Blocks have marker holding recesses to accept marking tags for circuit identification. Cross connection can be achieved with the aid of shorting links / sleeves & screws. Insulation Material is Polyamide 66.


|  | ORDER CODE | DESCRIPTION | PRICE |
|---|---|-------------------------------------|---------------|
| | Double Level Terminal Blocks - Screw Clamp | | |
| | *CDL4UN | 4 sq.mm Double Level Terminal Block | R 5.20 |
| | EPCDL4UN | End Plate in Grey colour | R 4.60 |
| | *CA702 or CA802 | End Clamp | R 4.10 |
| | CA509/K6 | Marking Tags | R 0.50 |


Disconnect & Test Terminal Blocks


|  | ORDER CODE | DESCRIPTION | PRICE |
|---|------------|---|---------------|
| | CKT4U/S | 4 sq.mm Knife Type Disconnect & Test Terminal Blocks w Standard screw | R 9.80 |
| | EPCKT4U | End Plate in Grey colour | R 4.60 |
| | *CA702/802 | End Clamp | R 4.10 |

Other Items

|  | Slim Pluggable Relay Module 24V DC Coil - 1x 6A Change over Contact | | |
|---|--|--|----------------|
| | *IMSR1SS1/24 | Relay 0.5to2.5mm ² Wire , 6.2 mm Pitch, 70.9mm H, 88.3 mm W | R 99.20 |
| | IMACC /SR1S/24 | Spare Relay | R 45.90 |
| | IMACCSL1/8 | Shorting link 8 way | R 19.50 |
| | CA702 | End Clamp | R 4.10 |
| | GMH6 | Small Group Marker, 9.5mm Pitch, 46.5mm H, 44.5 W | R 4.60 |
| | GMH7 | Big Group Marker, 19.5mm Pitch, 46.5mm H, 44.5 W | R 6.10 |
| | CA509/K6 | Terminal Marker | R 0.50 |

|  | Ground / Earth Screw Terminal Blocks (G or Tophat Rail) | | |
|---|--|---|---------------|
| | CGT4N | Terminal 0.5to2.5mm ² Wire , 6mm Pitch, 48mm H, 43mm W | R 9.80 |
| | CA509/K6 | Terminal Marker | R 0.50 |

|  | Neutral / Earth Clamps | | |
|---|-------------------------------|--|----------------|
| | *CENC4 | Clamp 0.5to6mm ² Wire , 7.5mm Pitch, 30mm H, 23.3mm W | R 2.80 |
| | *NES | Plastic Support with fixing screw | R 2.70 |
| | NEB10 | Bus Bar (10x3mm) 1 meter | R 93.00 |
| | CA202 | Bus Bar Support for DIN35 Rail Mounting | R 6.20 |

|  | Din Rail Mount Switch & 3 Pin 16A Plug | | |
|---|---|---------------------|----------------|
| | CDINSW1 | Din Rail Switch 16A | R 92.00 |
| | *CDINS16 | 16A 3 Prong Plug | R 98.00 |

NOTE: * PREFERRED STOCK ITEM



TERMINALS



Spring Clamp Terminal Blocks

These Terminal Blocks are an ideal choice for compact junction boxes having limitations of space and height. A major advantage of Angular Terminal Blocks over the top wire entry Terminal Blocks is that their profile remains the same across the entire range of Feed Through, Multiple Connection, Ground and Ground Multiple Connection Terminal Blocks. The other advantages include: Angular entry of wires saves conductor length, marking / identification facility on the centre (top) of the block, Multiplication of connections through bridging. Step Down shorting links are used for shorting spring clamp Terminal Blocks of different sizes.

| | | | |
|----------|--|--|----------------|
| | Angular Feed Through Terminal Blocks (Tophat Rail) | | |
| | AS2.5 | Terminal 0.5to4mm ² Wire , 5mm Pitch, 42mm H, 54mm W | R 4.20 |
| | EPAS2.5 | End Plate | R 2.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA801/1 | Insulated Push In Shorting Link - 2 Way | R 2.50 |
| | CA801/1-3 | Insulated Push In Shorting Alternate Link- 2 Way (Skip one) | R 3.50 |
| | GMH6 | Small Group Marker, 9.5mm Pitch, 46.5mm H, 44.5 W | R 4.60 |
| | GMH7 | Big Group Marker, 19.5mm Pitch, 46.5mm H, 44.5 W | R 6.10 |
| CA509/K5 | Terminal Marker | R 0.50 | |
| | Double Level Angular Feed Through Terminal Blocks (Tophat Rail) | | |
| | ADL2.5 | Terminal 0.5to4mm ² Wire , 5mm Pitch, 50mm H, 79.5mm W | R 9.80 |
| | EPADL2.5 | End Plate | R 4.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA801/1 | Insulated Push In Shorting Link - 2 Way | R 2.50 |
| | CA801/1-3 | Insulated Push In Shorting Alternate Link- 2 Way (Skip one) | R 3.50 |
| | GMH6 | Small Group Marker, 9.5mm Pitch, 46.5mm H, 44.5 W | R 4.60 |
| | GMH7 | Big Group Marker, 19.5mm Pitch, 46.5mm H, 44.5 W | R 6.10 |
| CA509/K5 | Terminal Marker | R 0.50 | |
| | Angular Fuse Terminal Blocks with LED Indication (Tophat Rail) | | |
| | ASF4(L) | Terminal 0.5 to 4mm ² Wire , 8mm Pitch, 60mm H, 86mm W With fuse & LED indication | R 56.30 |
| | ASF4(L) W/F | Terminal Block - without fuse | R 56.00 |
| | ASF4(L)/24V | Terminal Block for 24V AC/DC | R 56.30 |
| | EPASF4 | End Plate | R 4.60 |
| | CA702 | End Clamp | R 4.10 |
| | CA801/7 | Insulated Push In Shorting Link - 2 Way | R 5.50 |
| | GMH6 | Small Group Marker, 9.5mm Pitch, 46.5mm H, 44.5 W | R 4.60 |
| | GMH7 | Big Group Marker, 19.5mm Pitch, 46.5mm H, 44.5 W | R 6.10 |
| | CA509/K2 | Terminal Marker | R 0.50 |

NOTE: * PREFERRED STOCK ITEM



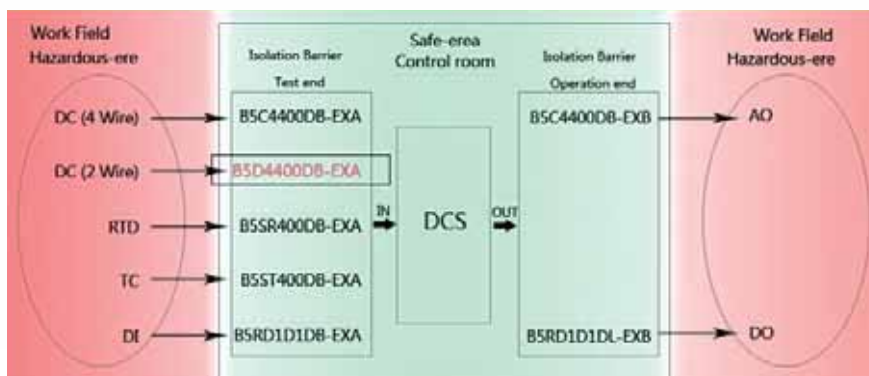
ISOLATED SAFETY BARRIER



Protection grade: IP20
(IEC60529 / EN60529)
Input signal range: 4-20mA
Output signal range: 4-20mA
Operating voltage: 24VDC
Operating temperature:
-25C~+71C
Dimensions:
W12.5 x H95 x D110mm

| ORDER CODE | DESCRIPTION | PRICE |
|---------------|---|-------------------|
| B5C3400DB-EXA | 1-Input: 0-10V 1-Output: 4-20mA | R 1,680.00 |
| B5C3404DB-EXA | 1-Input: 0-10V 1-Output: 4-20mA 2-Output: 4-20mA | R 1,940.00 |
| B5C4400DB-EXA | 1-Input: 4-20mA 1-Output: 4-20mA | R 1,940.00 |
| B5C4404DB-EXA | 1-Input: 4-20mA 1-Output: 4-20mA 2-Output: 4-20mA | R 1,940.00 |
| B5D4400DB-EXA | 1-Input: 4-20mA 1-Output: 4-20mA | R 1,820.00 |
| B5D4404DB-EXA | 1-Input: 4-20mA 1-Output: 4-20mA 2-Output: 4-20mA | R 2,080.00 |
| B5RD1D1DB-EXA | 1-Input: On-Off signal 1-Output: On-Off signal | R 1,680.00 |

| ORDER CODE | DESCRIPTION | PRICE |
|---------------------|---|-------------------|
| B5SR400DB-EXA/0-100 | 1-Input: RTD (resistance) 1-Output: 4-20mA | R 1,940.00 |
| B5SR404DB-EXA/0-100 | 1-Input: RTD (resistance) 1-Output: 4-20mA 2-Output: 4-20mA | R 2,240.00 |
| B5TC400DB-EXA/0-100 | 1-Input: TC (Thermocouple) 1-Output: 4-20mA | R 1,940.00 |
| B5TC404DB-EXA/0-100 | 1-Input: TC (Thermocouple) 1-Output: 4-20mA 2-Output: 4-20mA | R 2,240.00 |
| B5C4400DB-EXB | 1-Input: 4-20mA 1-Output: 4-20mA | R 1,940.00 |
| B5RD1D1DL-EXB | 1-Input: On-Off signal 1-Output: On-Off signal | R 1,740.00 |





RELAYS



| TYPE/CODE | DESCRIPTION | | PRICE |
|-----------|--|----------------------------|----------------|
| 40.61 | Miniature P.C.B. Relay | MINIATURE RELAY 16A 12VAC | R 45.00 |
| | | MINIATURE RELAY 16A 24VAC | R 45.00 |
| | | MINIATURE RELAY 16A 48VAC | R 50.00 |
| | | MINIATURE RELAY 16A 110VAC | R 57.00 |
| | | MINIATURE RELAY 16A 240VAC | R 71.00 |
| 95.05 SPA | Surf/DIN mounting screw terminal socket for 40/44 series | | R 33.80 |
| 40.52 | Miniature P.C.B. Relay | MINIATURE RELAY 8A 12VAC | R 40.00 |
| | | MINIATURE RELAY 8A 24VAC | R 40.00 |
| | | MINIATURE RELAY 8A 36VAC | R 51.00 |
| | | MINIATURE RELAY 8A 48VAC | R 51.00 |
| | | MINIATURE RELAY 8A 110VAC | R 58.00 |

POWER SUPPLIES



| ORDER CODE | INPUT VOLTAGE (Vac) | OUTPUT WATTAGE (W) | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT | MIN EFFICIENCY (%) | DIMENSIONS (HxWxD) in mm | HOUSING MATERIAL | WEIGHT (Grams) | PRICE |
|-----------------|---------------------|--------------------|----------------------|----------------|--------------------|--------------------------|------------------|----------------|-------------------|
| *PSS60/24/2.5 | 85/264 | 60 | 24 | 2.5 | 86 | 90 X 40.5 X 114 | PLASTIC | 340 | R 550.00 |
| *PSS 120/24/5 | 115/230 | 120 | 24 | 5 | 84 | 124 X 64 X | METAL | 920 | R 698.00 |
| *PSS 240/24/10 | 115/230 | 240 | 24 | 10 | 87 | 124 X 84 X 124 | METAL | 1000 | R 1,144.00 |
| *PSB4/60/24/2.5 | 90 to 264 | 60 | 24 | 2.5 | 84 | 57 X 71 X 91 | PLASTIC | 250 | R 556.00 |

NOTE: * PREFERRED STOCK ITEM





SWITCHES

| PUSH BUTTONS & SELECTOR SWITCH BODIES | | | |
|---|---|---|-----------------|
| PICTURE | ORDER CODE | DESCRIPTION | PRICE |
| | ZB4BZ101 | Single Contact Block with body/fixing collar 1NO screw clamp terminal | R 83.78 |
| | ZB4BZ102 | Single Contact Block with body/fixing collar 1NC screw clamp terminal | R 83.78 |
| | ZB4BZ103 | Double Contact Block with body/fixing collar 2NO screw clamp terminal | R 134.49 |
| | ZB4BZ104 | Double Contact Block with body/fixing collar 2NC screw clamp terminal | R 134.49 |
| | ZB4BZ105 | Double Contact Block with body/fixing collar 1NC & 1NO screw clamp terminal | R 134.49 |
| HEADS FOR SELECTOR SWITCHES - Standard Black Handle | | | |
| | ORDER CODE | Nr of Type positions | PRICE |
| | Standard – handle black | | |
| | ZB4BD2 | Black Selector Switch Head Ø22 2-Position Stay Put | R 175.28 |
| | ZB4BD3 | Black Selector Switch Head Ø22 3-Position Stay Put | R 175.28 |
| | ZB4BD4 | Black Selector Switch Head Ø22 2-Position Spring Return to L | R 175.28 |
| ZB4BD5 | Black Selector Switch Head Ø22 3-Position Spring Return to Centre | R 175.28 | |
| HEADS FOR SELECTOR SWITCHES - Long Black Handle | | | |
| | ZB4BJ2 | Black Selector Switch Head Ø22 2-Position Stay Put | R 174.18 |
| | ZB4BJ3 | Black Selector Switch Head Ø22 3-Position Stay Put | R 174.18 |
| | ZB4BJ5 | Black Selector Switch Head Ø22 3-Position Spring Return to Centre | R 194.02 |



COMPLETE Pilot Light with "Protected LED"

| Complete Pilot Light with "Protected LED" | | | | | | |
|---|---------|-----------------|-----------|-----------------|------------|-----------------|
| Voltage | 24v | | 48...120v | | 230...240v | |
| COLOUR | CODE | PRICE | CODE | PRICE | CODE | PRICE |
| White | XB4BVB1 | R 187.41 | XB4BVG1 | R 237.90 | XB4BVM1 | R 286.62 |
| Green | XB4BVB3 | R 187.41 | XB4BVG3 | R 237.90 | XB4BVM3 | R 286.62 |
| Red | XB4BVB4 | R 187.41 | XB4BVG4 | R 237.90 | XB4BVM4 | R 286.62 |
| Yellow | XB4BVB5 | R 187.41 | XB4BVG5 | R 237.90 | XB4BVM5 | R 286.62 |
| Blue | XB4BVB6 | R 187.41 | XB4BVG6 | R 237.90 | XB4BVM6 | R 286.62 |



SWITCHES



COMPLETE PUSHBUTTONS



XB4BA21



XB4BA31



XB4BA61



XB4BA3311



XB4BA42



XB4BA51



ZB4BA0



ZB4BA1



ZB4BA5



ZB4BA2



ZB4BA3



ZB4BA4



ZB4BA5



ZB4BA6



ZB4BA8

| ORDER CODE | DESCRIPTION | PRICE |
|------------|--|----------|
| XB4BA21 | Black Flush Complete Pushbutton Ø22 Spring Return 1NO | R 160.95 |
| XB4BA31 | Green Flush Complete Pushbutton Ø22 Spring Return 1NO | R 160.95 |
| XB4BA42 | Red Flush Complete Pushbutton Ø22 Spring Return 1NC | R 160.95 |
| XB4BA51 | Yellow Flush Complete Pushbutton Ø22 Spring Return 1NO | R 160.95 |
| XB4BA61 | Blue Flush Complete Pushbutton Ø22 Spring Return 1NO | R 160.95 |
| XB4BA3311 | Green Flush Complete Pushbutton Ø22 Spring Return 1NO, with "I" in white | R 171.97 |

HEADS FOR SPRING RETURN PUSHBUTTONS

| ORDER CODE | DESCRIPTION | PRICE |
|------------|---|---------|
| ZB4BA0 | Pushbutton Head Ø22 Spring Return without Cap | R 83.78 |
| ZB4BA1 | Pushbutton Head Ø22 Spring Return with White Cap | R 77.17 |
| ZB4BA2 | Pushbutton Head Ø22 Spring Return with Black Cap | R 77.17 |
| ZB4BA3 | Pushbutton Head Ø22 Spring Return with Green Cap | R 77.17 |
| ZB4BA4 | Pushbutton Head Ø22 Spring Return with Red Cap | R 77.17 |
| ZB4BA5 | Pushbutton Head Ø22 Spring Return with Yellow Cap | R 77.17 |
| ZB4BA6 | Pushbutton Head Ø22 Spring Return with Blue Cap | R 77.17 |
| ZB4BA8 | Pushbutton Head Ø22 Spring Return with Grey Cap | R 77.17 |

MUSHROOM HEADS FOR E-STOP PUSHBUTTONS

| ORDER CODE | DESCRIPTION | PRICE |
|------------|---|----------|
| ZB4BS844 | Red Ø40 Emergency Stop Pushbutton Head Ø22, Trigger and Latching Turn Release | R 300.00 |
| ZB4BS944 | Red Ø40 Emergency Stop Pushbutton Head Ø22, Trigger and Latching Key Release | R 470.00 |
| ZB4BT2 | Black Ø40 Mushroom Pushbutton Head Ø22, Latching Push-Pull | R 288.83 |
| ZB4BT4 | Red Ø40 Mushroom Pushbutton Head Ø22, Latching Push-Pull | R 279.28 |
| ZB4BX4 | Red Ø60 Mushroom Pushbutton Head Ø22, Latching Push-Pull | R 342.85 |
| ZB4BS44 | Red Ø30 Emergency Stop Pushbutton Head Ø22, Latching Turn Release | R 341.21 |
| ZB4BS54 | Red Ø40 Emergency Stop Pushbutton Head Ø22, Latching Turn Release | R 300.00 |
| ZB4BS64 | Red Ø60 Emergency Stop Pushbutton Head Ø22, Latching Turn Release | R 363.42 |
| ZB4BS14 | Red Ø40 Emergency Stop Pushbutton Head Ø22, Latching Key Release | R 448.72 |
| ZB4BS24 | Red Ø60 Emergency Stop Pushbutton Head Ø22, Latching Key Release | R 620.00 |



PANELS - ENCLOSURES



| FLOOR STANDING - IP55 | | |
|-----------------------|--------------------------------|--------------------|
| PART NUMBER | DESCRIPTION (HxWxD) | PRICE |
| 01-022-664-4-O | UPRIGHT ENCLOSURE 1575x600x400 | R 6,000.00 |
| 01-022-684-4-O | UPRIGHT ENCLOSURE 1575x800x400 | R 7,313.00 |
| 01-022-764-4-O | UPRIGHT ENCLOSURE 1838x600x400 | R 6,812.00 |
| 01-022-786-4-O | UPRIGHT ENCLOSURE 1838x800x600 | R 9,000.00 |
| 01-022-864-4-O | UPRIGHT ENCLOSURE 2100x600x400 | R 7,525.00 |
| 01-022-886-4-O | UPRIGHT ENCLOSURE 2100x800x600 | R 10,063.00 |

| MILD STEEL SURFACE MOUNTING - IP56 | | |
|------------------------------------|---------------------|-------------------|
| PART NUMBER | DESCRIPTION (HxWxD) | PRICE |
| MCE-105 | 300 x 300 x 200 | R 713.00 |
| MCE-107 | 400 x 300 x 200 | R 897.00 |
| MCE-108 | 400 x 400 x 200 | R 1,035.00 |
| MCE-111 | 500 x 400 x 250 | R 1,323.00 |
| MCE-114 | 600x 400 x 250 | R 1,840.00 |
| MCE-117 | 600 x 500 x 250 | R 2,001.00 |
| MCE-119 | 700 x 500 x 250 | R 2,346.00 |
| MCE-122 | 800 x 600 x 250 | R 2,530.00 |
| MCE-123 | 800 x 600 x 350 | R 2,898.00 |
| MCE-124 | 1000 x 600 x 250 | R 3,260.00 |
| MCE-125 | 1000 x 600 x 300 | R 3,381.00 |
| MCE-126 | 1000 x 800 x 250 | R 3,450.00 |
| MCE-127 | 1000 x 800 x 300 | R 4,002.00 |
| MCE-128 | 1000 x 800 x 350 | R 4,681.00 |
| MCE-129 | 1200 x 800 x 350 | R 5,060.00 |

| PANEL LIGHTS | | |
|--------------|--|-----------------|
| PART NUMBER | DESCRIPTION | PRICE |
| HLI00301 | 230V LED STRIP LIGHT 250MM(L) C/W 1M CABLE IP20 - Lumen 141 | R 488.00 |
| HLI00401 | 230V LED STRIP LIGHT 250MM(L) C/W 1M CABLE IP20 - Lumen 195 | R 608.00 |
| HLI00501 | 230V LED STRIP LIGHT 250MM(L) C/W 1M CABLE IP20 - Lumen 254 | R 920.00 |



| HLI00301 | HLI00401 | HLI00501 |
|-------------------|-------------------|--------------------|
| 250Lx36Wx35Dmm | 330Lx36Wx35Dmm | 550Lx36Wx35Dmm |
| 47 x 0.06W (2.7W) | 65 x 0.06W (3.6W) | 121 x 0.06W (6.8W) |
| IP20 | IP20 | IP20 |

NOTE:

O - Orange colour. Should you want Grey, use G instead.
All Enclosures Complete with chassis and panel key

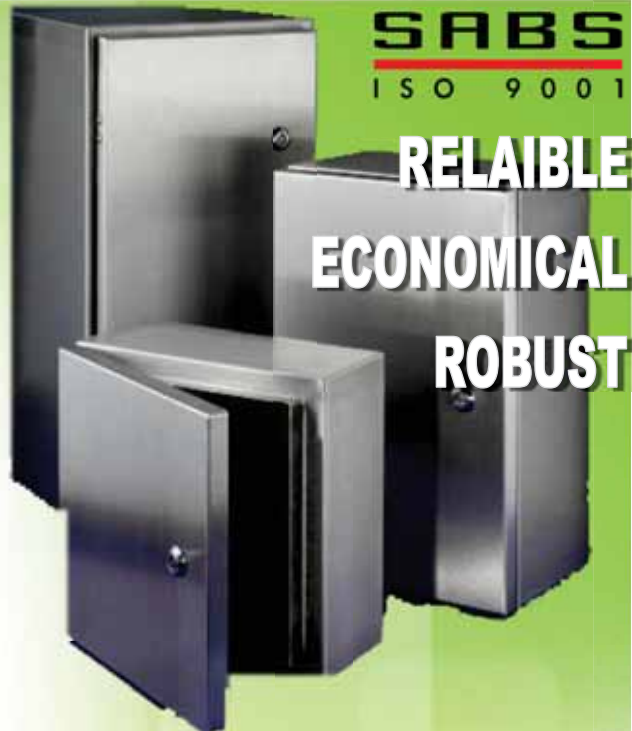


PANELS - ENCLOSURES

| STAINLESS STEEL SURFACE MOUNTING - IP56 | | |
|---|---------------------|-------------|
| PART NUMBER | DESCRIPTION (HxWxD) | PRICE |
| MCE-105-SS | 300 x 300 x 200 | R 1,587.00 |
| MCE-107-SS | 400 x 300 x 200 | R 1,898.00 |
| MCE-108-SS | 400 x 400 x 200 | R 2,277.00 |
| MCE-111-SS | 500 x 400 x 250 | R 2,788.00 |
| MCE-114-SS | 600x 400 x 250 | R 3,542.00 |
| MCE-117-SS | 600 x 500 x 250 | R 4,428.00 |
| MCE-119-SS | 700 x 500 x 250 | R 5,313.00 |
| MCE-122-SS | 800 x 600 x 250 | R 6,325.00 |
| MCE-123-SS | 800 x 600 x 350 | R 6,451.00 |
| MCE-124-SS | 1000 x 600 x 250 | R 7,590.00 |
| MCE-125-SS | 1000 x 600 x 300 | R 7,969.00 |
| MCE-126-SS | 1000 x 800 x 250 | R 8,728.00 |
| MCE-127-SS | 1000 x 800 x 300 | R 9,108.00 |
| MCE-128-SS | 1000 x 800 x 350 | R 9,487.00 |
| MCE-129-SS | 1200 x 800 x 350 | R 10,752.00 |

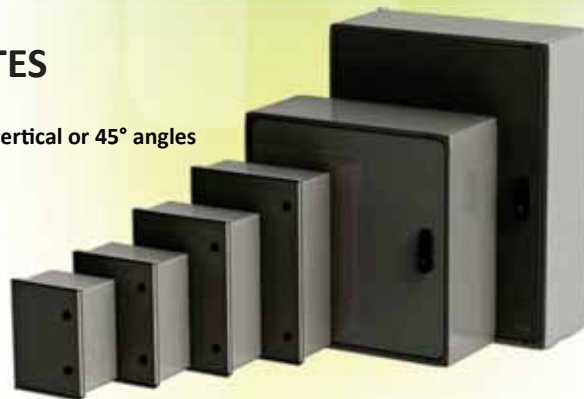
NOTE:

Stainless Steel Enclosures come with Protective wrapping to prevent scratches



ALLBROX GRP - SMC DEVICE PLATES

- External adjustable mounting bracket , horizontal, vertical or 45° angles
- Internal Stainless Steel hinges
- Mounting brackets are Stainless Steel
- DIN rail mount with M6 bolt and nut
- The height of the DIN rail is easily adjustable
- Removable door
- Steel device plate available on request.
- Material - SMC
- IP66



| Part Number | Description | W | H | D | Price |
|-------------|---------------------------------|-----|------|-----|------------|
| ALL-003 | Allbrox 3 with SMC Device plate | 250 | 350 | 200 | R 688.00 |
| ALL-004 | Allbrox 4 with SMC Device plate | 300 | 400 | 200 | R 798.00 |
| ALL-005 | Allbrox 5 with SMC Device plate | 350 | 500 | 200 | R 980.00 |
| ALL-006 | Allbrox 6 with SMC Device plate | 400 | 600 | 200 | R 1,325.00 |
| ALL-007 | Allbrox 7 with SMC Device plate | 750 | 750 | 320 | R 3,482.00 |
| ALL-008 | Allbrox 8 with SMC Device plate | 800 | 1000 | 320 | R 5,428.00 |



MINIATURE CIRCUIT BRAKER



| Current Rating | kA Rating | Single Pole | | Double Pole | | Triple Pole | | Four Pole | |
|----------------|-----------|-----------------|----------|-----------------|----------|-----------------|----------|-----------------|----------|
| | | CODE | PRICE | CODE | PRICE | CODE | PRICE | CODE | PRICE |
| 1 Amp | 10kA | KC10-T-101 | R 70.00 | KC10-T-201 | R 143.00 | KC10-T-301 | R 226.00 | KC10-T-401 | R 297.00 |
| 2 Amp | 10 kA | KC10-T-102 | R 70.00 | KC10-T-202 | R 143.00 | KC10-T-302 | R 226.00 | KC10-T-402 | R 297.00 |
| 3 Amp | 10 kA | KC10-T-103 | R 70.00 | KC10-T-203 | R 143.00 | KC10-T-303 | R 226.00 | KC10-T-403 | R 297.00 |
| 4 Amp | 10 kA | KC10-T-104 | R 70.00 | KC10-T-204 | R 143.00 | KC10-T-304 | R 226.00 | KC10-T-404 | R 297.00 |
| 6 Amp | 10 kA | KC10-T-106 | R 70.00 | KC10-T-206 | R 143.00 | KC10-T-306 | R 226.00 | KC10-T-406 | R 297.00 |
| 10 Amp | 10 kA | KC10-T-110 | R 70.00 | KC10-T-210 | R 143.00 | KC10-T-310 | R 226.00 | KC10-T-410 | R 297.00 |
| 16 Amp | 10 kA | KC10-T-116 | R 70.00 | KC10-T-216 | R 143.00 | KC10-T-316 | R 226.00 | KC10-T-416 | R 297.00 |
| 20 Amp | 10 kA | KC10-T-120 | R 70.00 | KC10-T-220 | R 143.00 | KC10-T-320 | R 226.00 | KC10-T-420 | R 297.00 |
| 25 Amp | 10 kA | KC10-T-125 | R 70.00 | KC10-T-225 | R 143.00 | KC10-T-325 | R 226.00 | KC10-T-425 | R 297.00 |
| 32 Amp | 10 kA | KC10-T-132 | R 70.00 | KC10-T-232 | R 143.00 | KC10-T-332 | R 226.00 | KC10-T-432 | R 297.00 |
| 40 Amp | 10 kA | KC10-T-140 | R 70.00 | KC10-T-240 | R 143.00 | KC10-T-340 | R 226.00 | KC10-T-440 | R 297.00 |
| 50 Amp | 10 kA | KC10-T-150 | R 70.00 | KC6-T-250 | R 143.00 | KC10-T-350 | R 226.00 | KC10-T-450 | R 297.00 |
| 63 Amp | 10 kA | KC10-T-163 | R 70.00 | KC10-T-263 | R 143.00 | KC10-T-363 | R 226.00 | KC10-T-463 | R 297.00 |
| 80 Amp | 10 kA | KC10-T-125-180 | R 242.00 | KC10-T-125-280 | R 440.00 | KC10-T-125-380 | R 655.00 | KC10-T-125-480 | R 874.00 |
| 100 Amp | 10 kA | KC10-T-125-1100 | R 242.00 | KC10-T-125-2100 | R 440.00 | KC10-T-125-3100 | R 655.00 | KC10-T-125-4100 | R 874.00 |



3 and (4) Pole Moulded Case Circuit Breakers

| 3 and (4) Pole Moulded Case Circuit Breakers - Fixed Terminal Magnetic | | | | | | | |
|--|---------|-----------------|-----------|------------|------------|------------|--|
| ORDER CODE | CURRENT | DIMENSIONS | kA Rating | RATED | PRICE | | |
| | Rating | H X W X D | | Op Voltage | 3 Pole | 4 Pole | |
| KCM1-100S-32(-4) | 32 Amp | 150x90(120)x68 | 25 kA | 690V | R920.00 | R 1,200.00 | |
| KCM1-100S-40(-4) | 40 Amp | 150x90(120)x68 | 25 kA | 690V | R 920.00 | R 1,200.00 | |
| KCM1-100S-50(-4) | 50 Amp | 150x90(120)x68 | 25 kA | 690V | R 920.00 | R 1,200.00 | |
| KCM1-100S-63(-4) | 63 Amp | 150x90(120)x68 | 25 kA | 690V | R 920.00 | R 1,200.00 | |
| KCM1-100S-80(-4) | 80 Amp | 150x90(120)x68 | 25 kA | 690V | R 920.00 | R 1,200.00 | |
| KCM1-100S-100(-4) | 100 Amp | 150x90(120)x68 | 25 kA | 690V | R 920.00 | R 1,200.00 | |
| KCM1-225S-125(-4) | 125 Amp | 165x105(140)x85 | 25 kA | 690V | R 1,200.00 | R 1,570.00 | |
| KCM1-225S-160(-4) | 160 Amp | 165x105(140)x85 | 25 kA | 690V | R 1,200.00 | R 1,570.00 | |
| KCM1-225S-200(-4) | 200 Amp | 165x105(140)x85 | 25 kA | 690V | R 1,200.00 | R 1,570.00 | |
| KCM1-225S-225(-4) | 225 Amp | 165x105(140)x85 | 25 kA | 690V | R 1,200.00 | R 1,570.00 | |

Neutral Earth Leakage

| NEUTRAL EARTH LEAKAGE | | | | | | |
|-----------------------|---------------------|-------------|-------------------|----------|-------------------|----------|
| PICTURE | OVERLOAD RATING (A) | SENSITIVITY | 2 POLE ORDER CODE | PRICE | 4 POLE ORDER CODE | PRICE |
| | 12 A | 30mA | KRC3-225 | R 275.00 | KRC3-425 | R 550.00 |
| | 40 A | 30mA | KRC3-240 | R 290.00 | KRC3-440 | R 560.00 |
| | 63 A | 30mA | KRC3-263 | R 300.00 | KRC3-463 | R 595.00 |
| | 80 A | 30mA | KRC3-280 | R 400.00 | KRC3-480 | R 610.00 |



3/4 POLE CIRCUIT BREAKER



| ORDER CODE | CURRENT | DIMENSIONS | kA Rating | RATED | PRICE | |
|---------------------|----------|------------------|-----------|------------|-------------|-------------|
| | Rating | H X W X D | | Op Voltage | 3 Pole | 4 Pole |
| KCM1-225S-250(-4) | 250 Amp | 165x105(140)x85 | 25 kA | 690V | R 1,200.00 | R 1,570.00 |
| KCM1-400S-315(-4) | 315 Amp | 255x140(200)x105 | 35 kA | 690V | R 3,200.00 | R 4,200.00 |
| KCM1-400S-350(-4) | 350 Amp | 255x140(200)x105 | 35 kA | 690V | R 3,200.00 | R 4,200.00 |
| KCM1-400S-400(-4) | 400 Amp | 255x140(200)x105 | 35 kA | 690V | R 3,200.00 | R 4,200.00 |
| KCM1-630S-500(-4) | 500 Amp | 270x180(240)x110 | 45 kA | 690V | R 5,750.00 | R 7,150.00 |
| KCM1-630S-630(-4) | 630 Amp | 270x180(240)x110 | 45 kA | 690V | R 5,750.00 | R 7,150.00 |
| KCM1-800S-800(-4) | 800 Amp | 278x210(270)x110 | 65 kA | 690V | R 8,050.00 | R 10,500.00 |
| KCM1-1250S-1250(-4) | 1250 Amp | 405x210(270)x140 | 85 kA | 690V | R 14,700.00 | R 19,200.00 |

ACCESSORIES



| ORDER CODE | DESCRIPTION | PRICE |
|----------------------------|---|------------|
| SHUNT TRIP | | |
| KCM1-ST-100 | 230V/400V/550V FOR KCM1 - 100 | R 350.00 |
| KCM1-ST-225 | 230V/400V/550V FOR KCM1 - 225 | R 430.00 |
| KCM1-ST-400 | 230V/400V/550V FOR KCM1 - 400 | R 760.00 |
| KCM1-ST-630 | 230V/400V/550V FOR KCM1 - 630 | R 830.00 |
| KCM1-ST-800 | 230V/400V/550V FOR KCM1 - 800 | R 1,075.00 |
| KCM1-ST-1250 | 230V/400V/550V FOR KCM1 - 1250 | R 1,300.00 |
| AUXILIARY CONTACTS | | |
| KCM1-AC-100 | 1 N/O & N/C AUXILIARY CONTACT FOR KCM1 - 100 | R 250.00 |
| KCM1-AC-225 | 1 N/O & N/C AUXILIARY CONTACT FOR KCM1 - 225 | R 265.00 |
| KCM1-AC-400 | 1 N/O & N/C AUXILIARY CONTACT FOR KCM1 - 400 | R 425.00 |
| KCM1-AC-630 | 1 N/O & N/C AUXILIARY CONTACT FOR KCM1 - 630 | R 500.00 |
| KCM1-AC-800 | 1 N/O & N/C AUXILIARY CONTACT FOR KCM1 - 800 | R 530.00 |
| KCM1-AC-1250 | 1 N/O & N/C AUXILIARY CONTACT FOR KCM1 - 1250 | R 735.00 |
| UNDER VOLTAGE TRIPS | | |
| KCM1-UVT-100 | UNDER VOLTAGE TRIPS – 400V FOR KCM1 – 100 | R 700.00 |
| KCM1-UVT-225 | UNDER VOLTAGE TRIPS – 400V FOR KCM1 – 225 | R 870.00 |
| KCM1-UVT-400 | UNDER VOLTAGE TRIPS – 400V FOR KCM1 – 400 | R 1,075.00 |
| KCM1-UVT-630 | UNDER VOLTAGE TRIPS – 400V FOR KCM1 – 630 | R 1,130.00 |
| KCM1-UVT-800 | UNDER VOLTAGE TRIPS – 400V FOR KCM1 – 800 | R 1,445.00 |
| KCM1-UVT-1250 | UNDER VOLTAGE TRIPS – 400V FOR KCM1 – 1250 | R 2,140.00 |
| VARI-DEPTH HANDLES | | |
| KCM1-VDH-100 | VARI-DEPTH HANDLE WITH SHAFT FOR KCM1 – 100 | R 523.00 |
| KCM1-VDH-225 | VARI-DEPTH HANDLE WITH SHAFT FOR KCM1 – 225 | R 600.00 |
| KCM1-VDH-400 | VARI-DEPTH HANDLE WITH SHAFT FOR KCM1 – 400 | R 740.00 |
| KCM1-VDH-630 | VARI-DEPTH HANDLE WITH SHAFT FOR KCM1 – 630 | R 815.00 |
| KCM1-VDH-800 | VARI-DEPTH HANDLE WITH SHAFT FOR KCM1 – 800 | R 1,200.00 |



PLC and SERVER CABINETS



| Wall Mount Cabinets | | | |
|------------------------------|------------|-----------------|-------------------|
| | ORDER CODE | SIZE (HxWxD) mm | PRICE |
| Wall Cabinet 4u Swing Frame | 4U400S | 178 x 600 x 400 | R 1,650.00 |
| Wall Cabinet 6u Swing Frame | 6U500S | 267 x 600 x 500 | R 1,900.00 |
| Wall Cabinet 9u Swing Frame | 9UX400S | 400 x 600 x 400 | R 1,700.00 |
| Wall Cabinet 9u Swing Frame | 9UX500S | 400 x 600 x 500 | R 2,100.00 |
| Wall Cabinet 12u Swing Frame | 12UX500S | 533 x 600 x 500 | R 2,300.00 |
| Cabinet Single Fan | MISC500 | - | R 250.00 |

| Server Cabinets Includes 4 fans & castors | | | |
|--|------------|-------------------|--------------------|
| | ORDER CODE | SIZE (HxWxD) mm | PRICE |
| 22u Network Server Cabinet | JS6822 | 978 x 600 x 800 | R 5,868.00 |
| 22u Network Server Cabinet | JS6022 | 978 x 600 x 1000 | R 7,368.00 |
| 27u Network Server Cabinet | JS6827 | 1200 x 600 x 800 | R 6,243.00 |
| 27 Network Server Cabinet | JS6027 | 1200 x 600 x 1000 | R 9,200.00 |
| 42u Network Server Cabinet | JS6842 | 1867 x 600 x 800 | R 9,875.00 |
| 42u Network Server Cabinet | JS6042 | 1867 x 600 x 1000 | R 10,800.00 |

| Accessories | | |
|---|------------|--------------------|
| DESCRIPTION | ORDER CODE | PRICE |
| 6-Way Server Power duct with circuit breaker | JS-110 | R 498.00 |
| 10-Way Server Power duct with circuit breaker | JS-114 | R 708.00 |
| Front Mount Shelve 19" 330mm | SMT330 | R 200.00 |
| Front Mount Shelve 19" 450mm | SMT450 | R 278.00 |
| Full Depth Shelve 550mm | FDS550 | R 300.00 |
| Full Depth Shelve 700mm | FDS710 | R 357.00 |
| Cabinet Cage Nuts & Washers | MISC-600 | R 4.90 each |
| Cabinet Brush Panel | PP-MAN | R 79.00 |
| Rack mount Keyboard Drawer | AS-110 | R 838.00 |

Shatterproof glass door with viewing window, Rail depth can be adjusted to suit equipment, Lift off hinges on swing frame, Surface finish decreasing, phosphoric, power coated



FIBRE - SPLICING MACHINE

Fujikura

FSM-70S

ORDER CODE: FSM-70S PRICE: R 110,000.00



| | |
|-------------------------------|---|
| Applicable Fibre Types | Single / SMF (G.652/657), MMF (G.651), DSF (G.653), NZDSF (G.655) |
| Fibre Count | Single |
| Splice/Heating mode | Total 100 splice modes / 30 heating modes |
| Typical splice loss | 0.02dB (SM), 0.01dB (MM), 0.04dB (DSF) and 0.04dB (NZDS) Measured by cut-back method relevant to ITU-T and IEC standards. |
| Splicing Time | Typical 7sec with SM |
| Heating Time | Typical 14sec with FP-03 (60mm) sleeve |
| Dimensions | 146W x 159D x 150H (mm) / 2.7kg (including battery) |
| Electrode Life | 3000 splices |

FULL SPECIFICATION SHEET AVAILABLE



Standard Package includes:

- Fusion Splicer
- AC Power Cord
- Cooling tray
- Spare Electrode
- Software
- Instruction Manual
- Fibre Cleaver
- Internal battery
- Carry case
- Charger

TP-550G

ORDER CODE: TP-550G PRICE: R 56,000.00



Main Specifications

- 9 Sec. Splice time & 30 Sec. Tube-heat time
- Simultaneous X and Y views
- Store 8000 groups of splice results
- Average Splice loss: 0-0.02dB (SM), 0-0.01dB (MM)
- Interface: RS232 Interface & Video output
- The cleaver can be used 30000 times & Electrode 8000 times
- Single Fibre Splice, Compatible with the Single Mode or Multi Mode






FIBRE - PATCH CORDS

| CLASS | MODEL | DESCRIPTION | PICTURE | ORDER CODE (1m) | PRICE |
|--------------------|----------------------------------|---|---|-------------------|----------------|
| PATCH CORDS | ST-ST | SIMPLEX ST-ST 9/125, Single Mode |  | FIBR-1MST-ST S SX | R 31.00 |
| | | SIMPLEX ST-ST 50/125, Multi Mode | | FIBR-1MST-ST M SX | R 30.00 |
| | | DUPLEX ST-ST 9/125, Single Mode | | FIBR-1MST-ST S DX | R 62.00 |
| | | DUPLEX ST-ST 50/125, Multi Mode | | FIBR-1MST-ST M DX | R 59.00 |
| | SC-SC | SIMPLEX SC-SC 9/125, Single Mode |  | FIBR-1MSC-SC S SX | R 31.00 |
| | | SIMPLEX SC-SC 50/125, Multi Mode | | FIBR-1MSC-SC M SX | R 29.00 |
| | | DUPLEX SC-SC 9/125, Single Mode | | FIBR-1MSC-SC S DX | R 62.00 |
| | | DUPLEX SC-SC 50/125, Multi Mode | | FIBR-1MSC-SC M DX | R 59.00 |
| | LC-LC | SIMPLEX LC-LC 9/125, Single Mode |  | FIBR-1MLC-LC S SX | R 44.00 |
| | | SIMPLEX LC-LC 50/125, Multi Mode | | FIBR-1MLC-LC M SX | R 43.00 |
| | | DUPLEX LC-LC 9/125, Single Mode | | FIBR-1MLC-LC S DX | R 89.00 |
| | | DUPLEX LC-LC 50/125, Multi Mode | | FIBR-1MLC-LC M DX | R 84.00 |
| | ST-SC | SIMPLEX ST-SC 9/125, Single Mode |  | FIBR-1MST-SC S SX | R 31.00 |
| | | SIMPLEX ST-SC 50/125, Multi Mode | | FIBR-1MST-SC M SX | R 29.00 |
| | | DUPLEX ST-SC 9/125, Single Mode | | FIBR-1MST-SC S DX | R 62.00 |
| | | DUPLEX ST-SC 50/125, Multi Mode | | FIBR-1MST-SC M DX | R 58.00 |
| | ST-LC | SIMPLEX ST-LC 9/125, Single Mode |  | FIBR-1MST-LC S SX | R 38.00 |
| | | SIMPLEX ST-LC 50/125, Multi Mode | | FIBR-1MST-LC M SX | R 43.00 |
| | | DUPLEX ST-LC 9/125, Single Mode | | FIBR-1MST-LC S DX | R 75.00 |
| | | DUPLEX ST-LC 50/125, Multi Mode | | FIBR-1MST-LC M DX | R 72.00 |
| | SC-LC | SIMPLEX SC-LC 9/125, Single Mode |  | FIBR-1MSC-LC S SX | R 38.00 |
| | | SIMPLEX SC-LC 50/125, Multi Mode | | FIBR-1MSC-LC M SX | R 36.00 |
| | | DUPLEX SC-LC 9/125, Single Mode | | FIBR-1MSC-LC S DX | R 75.00 |
| | | DUPLEX SC-LC 50/125, Multi Mode | | FIBR-1MSC-LC M DX | R 72.00 |
| FC-FC | SIMPLEX FC-FC 9/125, Single Mode |  | FIBR-1MFC-FC S SX | R 38.00 | |
| | SIMPLEX FC-FC 50/125, Multi Mode | | FIBR-1MFC-FC M SX | R 36.00 | |
| | DUPLEX FC-FC 9/125, Single Mode | | FIBR-1MFC-FC S DX | R 89.00 | |
| | DUPLEX FC-FC 50/125, Multi Mode | | FIBR-1MFC-FC M DX | R 84.00 | |
| FC-SC | SIMPLEX FC-SC 9/125, Single Mode |  | FIBR-1MFC-SC S SX | R 38.00 | |
| | SIMPLEX FC-SC 50/125, Multi Mode | | FIBR-1MFC-SC M SX | R 36.00 | |
| | DUPLEX FC-SC 9/125, Single Mode | | FIBR-1MFC-SC S DX | R 75.00 | |
| | DUPLEX FC-SC 50/125, Multi Mode | | FIBR-1MFC-SC M DX | R 72.00 | |

NOTE: STANDARD LENGTH OF PATCH CORDS ARE 1meter. SHOULD YOU NEED CUSTOM LENGTHS – PLEASE CONTACT US
Ruggedized patch cords available on special request



FIBRE - CONNECTORS & PIGTAILS

| CLASS | MODEL | PICTURE | | ORDER CODE | PRICE |
|------------------------|-------|---|---|--|--|
| | | Simplex (SX) | Duplex (DX) | | |
| FIBRE OPTICAL ADAPTERS | ST |  |  | FIBR-ADAP-ST-SX S FIBR-ADAP-ST-DX S FIBR-ADAP-ST-SX M FIBR-ADAP-ST-DX M | R 11.00 R 20.00 R 9.00 R 16.00 |
| | SC |  |  | FIBR-ADAP-SC-SX S FIBR-ADAP-SC-DX S FIBR-ADAP-SC-SX M FIBR-ADAP-SC-DX M | R 11.00 R 20.00 R 9.00 R 16.00 |
| | LC |  |  | FIBR-ADAP-LC-SX S FIBR-ADAP-LC-DX S FIBR-ADAP-LC-SX M FIBR-ADAP-LC-DX M | R 20.00 R 25.00 R 16.00 R 25.00 |
| FIBRE OPTIC CONNECTORS | ST |  | | FIBR-CON-ST | R 40.00 |
| | SC |  | | FIBR-CON-SC | R 40.00 |
| | LC |  | | FIBR-CON-LC | R 84.00 |

APPLICATION PICTURES







SPLICE BOX



SPLICE BOX WITH PIGTAILS INSIDE














SPLICE BOX WITH PATCH CORD OUTSIDE

| PIGTAILS | | | | | |
|---------------------|--------------------------|---|---|----------------|---------|
| CLASS | MODEL | DESCRIPTION | PICTURE | ORDER CODE | PRICE |
| UNJACKETED PIGTAILS | ST | ST Single Mode 9/125, 1m |  | FIBR-1UNJ-ST S | R 25.00 |
| | | ST Multi Mode 50/125, 1m | | FIBR-1UNJ-ST M | R 25.00 |
| | SC | SC Single Mode 9/125, 1m |  | FIBR-1UNJ-SC S | R 25.00 |
| | | SC Multi Mode 50/125, 1m | | FIBR-1UNJ-SC M | R 25.00 |
| LC | LC Single Mode 9/125, 1m |  | FIBR-1UNJ-LC S | R 30.00 | |
| | LC Multi Mode 50/125, 1m | | FIBR-1UNJ-LC M | R 30.00 | |
| FC | FC Single Mode 9/125, 1m |  | FIBR-1UNJ-FC S | R 28.00 | |
| | FC Multi Mode 50/125, 1m | | FIBR-1UNJ-FC M | R 28.00 | |




FIBRE - TESTERS & ACCESSORIES

| PICTURE | ORDER CODE | DESCRIPTION | PRICE |
|---|---------------|--|--------------------|
| OTDR TESTER | | | |
|  | OTDR TP-700 | SM Optical Time Domain Reflectometer, Wavelength: 1310nm/1550nm Dynamic Range: 26dB-28dB, Maximum test distance - 80Km | R 44,500.00 |
|  | TR600 | Single & Multi-mode Optical Time Domain Reflectometer, Weight - 1.5kg, Dimensions: 150(h)x235(w)x66(d)mm SM & MM parameters - MM : 10/20m, 20ns-128ns, 30km SM : 3/15m, 5ns-20us, 180km | R 75,600.00 |
| OPTICAL POWER METER | | | |
|  | TP-502A | Handheld Optical Power Meter High sensitivity, wider dynamic range universal connector interface FC/SC/ST Quick response, without warm-up and reduce testing time. Measurement RanTP: -70~+10dBm | R 2,550.00 |
| OPTICAL LIGHT SOURCE | | | |
|  | TP-202F | Optical Light Source, 3pcs 1.5V Batteries, AC Adapter, User Manual, Cotton Swabs and Soft Carrying Case Four wavelength: 1310/1550/850/1300 SM+MM | R 6,550.00 |
| VISUAL FAULT LOCATOR | | | |
|  | TP-261 | Visual Fault Locator is a visible red laser source for finding breaks and tight bends in optical Fibres. Wavelength (nm)- 650nm, Connector Type - FC/PC (Interchangeable SC, ST), Battery Life ≥40hrs Dimension (mm) - 185*25, Weight (g) 162g | R 1,450.00 |
|  | Fibre Cleaver | For Fusion Splicer TP-550 | R 3,950.00 |

| ACCESSORIES | | | |
|---|--|---|-----------------|
|  | PPSEST1024BLO | 24 Port 19" sliding draw rack mount FOBOT (Fibre Optic Break Out Tray) - No accessories included LC/ST/SC To order extra: Adapters/Pigtails/Gland & Management Kit | R 250.00 |
|  | KT-PNRM-04 | 19" inch Fibre Termination box, protection sleeve, white tube, Suitable for SC connector - all accessories included except pigtail and adapt- ers. Slide out design. Max capacity 48 fibre's | R 240.00 |
|  | 2552SA | Splice Box Dimensions (H x W x D): 210 x 160 x 65mm Exchangeable faceplates for: ST simplex / FC-"D" mount SC duplex plate up to 12x fibres. The 2552SA is constructed from flame retardant material. The boxes have a unique sliding lid | R 235.00 |
|  | OP12DN Specify faceplate option on order | 12 Way Stainless Steel Din Rail Mount Splice Box. Size: 140 x 140 x 55mm Modular Design. Separate faceplate options : 12x Duplex LC, 12x Simplex SC and 12x Simplex ST. Faceplate: 4x Cable entry knockouts on top, 2x behind & 1x at the bottom. Easy access clips to hold the pigtail slack | R 950.00 |
|  | Fibre Dome Joint KT-V8-2 | Vertical Fusion Splice Tray, Pressure Hoop, Silicon Rubber Seal and hang hook. Cables 2 In and 2 Out. Dimensions: Length 440mm, Diameter - 140mm, Max Fibre: 72 | R 435.00 |

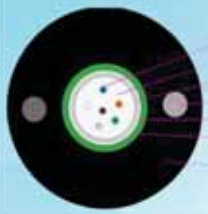




FIBRE - ACCESSORIES

| Splicing Tools & Consumables | | | | |
|---|------------------------|--|--------------------|-----------------|
|  | 34-155C | Kim Wipes, Low Lint | 280 sheets per box | R 70.00 |
| | ALCSPRAY | Alcohol Spray - for cleaning fibre cable before splicing | 400ml | R 70.00 |
| | CFS2 FIBRE STRIPPER | Fibre Stripping Tool | - | R 380.00 |
| | Splice Protector | Splice protector sleeves are manufactured pre-shrunk in a heat-bonded assembly that consists of three components: An inner tube of EVA hot-melt able adhesive. An outer of heat-shrinkable tubing. A reinforcing strength member | each | R 1.50 |



FIBRE OPTIC CABLE

| PICTURE | ORDER CODE | DESCRIPTION | FIBRE COUNT/CORE | INDICATIVE PRICE |
|---|--|--|--|--|
| HEAVY DUTY DUCT - OUTDOOR CABLE | | | | |
|  <p>Fibre Tube filling compound PBT loose tube Phosphoric steel wire Longitudinal water-proof tape Longitudinal corrugated steel Black MDPE out jacket</p> | GYXTW S Single Mode | Fibre optic GYXTW cable is mainly used in long distance and Local Area Network (LAN) communication. This cable is suitable for duct and aerial applications. This cable has two parallel round steel wires for tension-resistance and crush resistance. Black UV resistant polyethylene outer sheath (1.5mm RT) Ripcord for easy sheath stripping Glass re-enforced plastic centre strength member (GRP) Dry water blocked core Optical fibres ND PBT loose tube (Gel filled) | 4 fibre 8 fibre 12 fibre 24 fibre 36 fibre 48 fibre 72 fibre | R 10.00 R 11.00 R 12.20 R 14.00 R 16.50 R 19.00 R 24.50 |
| | GYXTW M Multi Mode | | 4 fibre 8 fibre 12 fibre 24 fibre 36 fibre 48 fibre 72 fibre | R 11.00 R 12.87 R 15.50 R 21.00 R 28.00 R 37.30 R 48.00 |
|  <p>Out sheath Corrugated steel tape Filling Compound Steel-wire strength member Fibre Loose tube Water blocking system</p>  | GYTS S Single Mode | These corrugated steel tape armoured cables are suitable for installation in aerial or duct environment for long haul communication Suitable for installation in cable trenching. Polyethylene sheath 1.5mm RT Corrugated Steel Tape Armouring Polyethylene Colour coded optical fibres PBT loose tube (Gel filled) Aramid yarn for tensile strength PVC bedding sheath | 4 fibre 8 fibre 12 fibre 24 fibre 36 fibre 48 fibre 72 fibre | R 14.50 R 15.70 R 16.50 R 22.00 R 24.00 R 26.00 R 32.00 |
| | GYTS M Multi Mode | | 4 fibre 8 fibre 12 fibre 24 fibre 36 fibre 48 fibre 72 fibre | R 15.00 R 16.80 R 19.50 R 28.20 R 38.50 R 46.80 R 59.20 |
| AERIAL ADSS - SHORT SPAN (100m) | | | | |
|  <p>OPGW OPPC ADSS, MASS</p>  | SINGLE MODE ADSS 4 S ADSS 8 S ADSS 12 S ADSS 24 S ADSS 36 S ADSS 48 S | UV resistant polyethylene outer sheath Aramid yarn for tensile strength (Optimised for span length) PBT loose tube (Gel filled) Colour coded optical fibres Glass re-enforced plastic centre strength member (GRP) | 4 fibre 8 fibre 12 fibre 24 fibre 36 fibre 48 fibre | R 10.50 R 11.70 R 13.00 R 15.00 R 20.20 R 25.00 |
| | MULTI MODE ADSS 4 M ADSS 8 M ADSS 12 M ADSS 24 M ADSS 36 M ADSS 48 M | | 4 fibre 8 fibre 12 fibre 24 fibre 36 fibre 48 fibre | R 11.00 R 13.50 R 16.00 R 23.50 R 32.00 R 38.50 |



WE SUPPLY INDOOR & OUTDOOR FIBRE CABLE - PHONE US NOW FOR A FREE QUOTE

NOTE: ORDERING CABLE EXAMPLE - ORDER CODE (FIBRE COUNT) C - GYXTW S 12C OR ADSS 4 M 4C



COPPER - NETWORK CABLE

| PICTURE | PRODUCT | DESCRIPTION | ORDER CODE | PRICE |
|---------|--|---|-----------------|-----------------------|
| | Profinet Industrial Ethernet Cat 5e solid, 2 x 2, PVC ES | Profinet (easy to strip) ES cable for permanent installation 2x2x22A UL listed: CMG & PLTC WG 1 Jacket: Polyvinylchloride (PVC) green 6.5 +/- 0.2mm | L45467-J16-B35 | R 23.70/meter |
| | Profinet Industrial Ethernet Cat 6, 4 x 2 solid, PVC GN | 4 x 2 x 24AWG/1 Solid - easy strip , Flame retardant Sunlight resistant , Green PVC jacket | L45467-J15-B15 | R 38.10/meter |
| | Profibus DP, Solid, Violet Easy strip | ES cable for flexible installation (Similar to 1x2x23AWG 19 strip) UL Listed: CMG & CL3 Jacket: Polyvinylchloride (PVC) violet 8.0 +/- 0.4mm, Solid Cable | 6XV1-830-0EH10 | R 13.90/meter |
| | Profibus PA ES | 1 x 2 x 1.3mm ² Multi-strand - easy strip , Flexible installation Flame retardant , Blue PVC jacket | L45467-J21-C35 | R 24.90/meter |
| | Profibus DP, Solid Steel wired Armored | Jacket: Polyvinylchloride (PVC) purple stripes Armour GSWA, galvanised steel wire armour wire (0.9mm) Solid Cable | PB SW CABLE/M | R 34.00/meter |
| | Device Net Thick | 1 x 2 x 1.3mm ² - Thick cable for fixed installation Flame retardant , Sunlight resistant, Oil resistant Grey PVC jacket | 1485C-P1-A50 | R 3,090/50m |
| | Device Net Thin | Thin cable for fixed installation Flame retardant , Sunlight resistant, Oil resistant Yellow PVC jacket | 1485C-P1-C50 | R 2,700/50m |
| | AS-Interface | 1 x 2 x 1.5mm ² - Chemical & automotive industry Flame retardant, Oil and cut oil resistant, Yellow TPE jacket | L45587-M21-Y139 | R 23.10/ meter |












COPPER - NETWORK CABLE





| PICTURE | PRODUCT | DESCRIPTION | ORDER CODE | LENGTH | PRICE |
|------------------------------------|--|--|---------------------------------------|-----------------------|--|
| | Ethernet Cat 5e UTP 4-pair cable | UTP Unshielded twisted 4 pairs category 5 cable (solid) GZ-400. Solid conductor AWG 24/1 for stationary applications. There will be no movement after installation. | UTP4/C5E | Per meter | R 5.20/meter |
| | Ethernet Cat 5e STP 4-pair cable | Most common transmission medium for LAN's It is comprised of copper wires individually surrounded by a PVC insulation layer and twisted around each in a OM cable 1mm sq. | STP4/C5E | Per meter | R 13.40/meter |
| | Cat 6 UTP 4-pair cable | CAT6A UTP, Solid Polyolefin insulated fibre + Spline PVC Grey Sheath Application: Installation Cable | UTP4/C6A | Per meter | R 6.97/meter |
| | Control Net RG6 <i>Shield</i> High Flex Cable | 18 AWG;75 Ohm Copper Clad steel conductor foam Polyethylene insulation Dual Shielded to prevent EMI/RFI Interference 120% Aluminium Polyester Foil Shield 60% Tinned Copper Braid | 1786-RG6 | 305 meter drum | R 5,700.00 |
| | Control Net RG6 <i>Quad Shield</i> High Flex Coax Cable | These particular cables are quad-shielded to provide extra protection against undesirable and signal Damaging electromagnetic interference | 1786-RG6F | 305 mar drum | R 6,300.00 |
| | Modbus Plus Cable | Modbus Plus Cable | BLDN9841 | 100m | R 14,790.00 |
| | Network Cable | CAT5 cable with RJ45 & boot connector on each side | CAT51M CAT52M CAT55M CAT510M | 1m 2m 5m 10m | R 25.00 R 38.00 R 45.00 R 65.00 |
| COPPER - NETWORK CONNECTORS | | | | | |
| | Connector MALE | Available for Cable CAT5 E STP, 5E UTP | RJ45 | EACH | R 6.00 |
| | RJ45 Socket FEMALE | Network Socket for wall mount Available for Cable CAT5 E STP, 5E UTP | RJ45 Socket | EACH | R 52.00 |
| | Boot | Available for Cable CAT5 E STP, 5E UTP | RJ 45 BOOT | EACH | R 7.50 |
| | RJ45 | INDUSTRIAL CONNECTOR - IE-PS-RJ45-FH-BK | 1963600000 | EACH | R 370.00 |



PROFIBUS CONNECTORS

| PICTURE | ORDER CODE | DESCRIPTION | AGE PRICE (ZAR) | SIEMENS PRICE (ZAR) |
|---|---------------------|--|-----------------|---------------------|
|  | *6ES7972-0BA12-0XA0 | Profibus Connector, without PG port, 90 degree | R 185.00 | R 711.00 |
|  | *6ES7972-0BB12-0XA0 | Profibus Connector, with PG port, 90 degree | R 210.00 | R 928.00 |
|  | *6ES7972-0BA41-0XA0 | Profibus Connector without PG Port, 35 degree | R 185.00 | - |
|  | *6ES7972-0BB41-0XA0 | Profibus Connector with PG Port, 35 degree | R 325.00 | - |
|  | *6ES7972-0BB52-0XA0 | Profibus DP Connector 90 degrees Fast connect | R 325.00 | R 928.00 |
|  | *6ES7972-0BA52-0XA0 | Simatic DP, Bus Connector for Profibus up to 12 MBI | R 325.00 | R 711.00 |
|  | *6ES7972-0BB50-0XA0 | Profibus DP Connector 90 Degrees Fast Connect with Programming Inter | R 248.00 | - |
|  | *6ES7392-1AJ00-0AA0 | S7-300 front connector (20 pin) | R 145.00 | R 419.00 |
|  | *6ES7392-1AM00-0AA0 | S7-300 front connector (40 pin) | R 255.00 | R 662.00 |

PLC INTERFACE CABLES

| | | | | |
|---|--|--|-------------------|------------|
|  | USB/MPI+ 6ES7 972-0CB20-0XA0 | Simatic S7, PC adapter USB f. Connection of S7-200 300/400 C7, with USB-cable (5m) can be used under Win XP/ Vista/ Windows 7, 32bit | R 1,970.00 | R 5,540.00 |
| SCHNEIDER | | | | |
|  | TSXPCX3030 | USB/RS485 interface cable for Schneider PLC programming, 2.5m, with master/slave switch, connect the TER and AUX port of PLC, the largest communication distance of up to 2km. | R 950.00 | R 2,283.00 |
| ALLEN BRADLEY | | | | |
|  | USB-1747-CP3 | USB interface Allen Bradley SLC 5/03,5/04,5/05 PLC programming adapter | R 647.00 | R 716.00 |
|  | USB-1761-CBLPM02 | USB interface Allen Bradley MicroLogix 1000 TO Personal computer 2.0 meter, 8-PIN mini din to 9-PIN D-Shell | R 524.00 | R 559.00 |

NOTE: * PREFERRED STOCK ITEM



NETWORK SWITCHES

| PICTURE | ORDER CODE | DESCRIPTION | PRICE |
|---|-----------------|---|--------------------|
| Media Converters (all powered with 24VDC) | | | |
| | EX42011-1A-1-A | 1-port 10/100BASE-TX and 1-port 100BASE-FX 12 to 48VDC Power inputs | R 2,404.00 |
| | EX42011-2A-1-A | 1 x Fast Ethernet 10/100 BASE-TX port with RJ45 socket. 1 x Fast Ethernet 100 BASE-FX Single Mode | R 2,992.00 |
| DIN Rail Mount Unmanaged Switches (all powered with 24VDC) | | | |
| | EX42005-00-1-AA | EtherWan 5 Port 10/100 | R 1,683.00 |
| | EX42014-1A-1-AA | EtherWan 4 Port 10/100 & 1 Port 100FX MM SC Connection | R 1,817.00 |
| | EX42014-2A-1-AA | EtherWan 4 Port 10/100 & 1 Port 100FX SM SC Connection 20Km | R 2,992.00 |
| | EX43008-00-1-A | EtherWan 8 Port 10/100 | R 2,591.00 |
| | EX33160-00B | EtherWan 16 Port 10/100 | R 4,808.00 |
| | EX33142-10B | EtherWan 14 Port 10/100 & 2 Port 100FX MM SC Connection | R 6,945.00 |
| DIN Rail Mount Managed Switches (all powered with 24VDC) | | | |
| | EX61620A-10B | EtherWan 6 port 10/100 & 2 port 100FX MM SC, for Fibre Ring topology | R 11,033.00 |
| | EX61620A-A0B | EtherWan 6 port 10/100 & 2 port 100FX MM SC, for Fibre Ring topology 20Km | R 13,838.00 |
| | EX61800A-00B | EtherWan 8 Port 10/100 | R 8,682.00 |



| PICTURE | ORDER CODE | DESCRIPTION | PRICE |
|---|-------------------|---|--------------------|
| 19" Rack mount Switches (powered by 90 - 260VAC) | | | |
| | EX77604-001C | EtherWan 24-port 10/100BASE-TX + 4-port 10/100/1000BASE-TX | R 23,829.00 |
| | EX77604-00VC | EtherWan 24-port 10/100BASE-TX + 4-port 1000BASE SFP Combo | R 31,042.00 |
| | EX77424-10VC | EtherWan 16-port 10/100BASE-TX + 8-port 100BASE-FX MM SC 2KM + 4-port 1000BASE SFP Combo | R 40,472.00 |
| | EX77424-A0VC | EtherWan 16-port 10/100BASE-TX + 8-port 100BASE-FX SM SC 20KM + 4-port 1000BASE SFP Combo | R 47,471.00 |
| SFP Modules | | | |
| | EX-0155NSP-MB2L-A | EtherWan MM SFP (2Km) | R 1,068.00 |
| | EX-0155TSP-MB5L-A | EtherWan SM SFP (15Km) | R 1,335.00 |
| Ethernet Extenders | | | |
| | ED3101 | VDSL over RJ11 | R 3,472.00 |
| | ED3331 | VDSL over BNC Coax | R 3,472.00 |



NETBITER

ODER CODE : EC350:NB1005
PRICE: R 12,950.00



Technical features

- Powerful ARM Cortex processor for fast data cycle times
- Extended memory capacity supporting up to 512 MB Flash and 1024 MB RAM
- Designed for global use with additional support for 5 different 3G bands
- Two fully separated Ethernet Interfaces (WAN and LAN) makes it possible to provide secure communication to the field installation
- Device connectivity via Ethernet LAN or Serial RS232 and RS485
- Built-in GPS receiver makes it suitable for mobile fleet management applications
- Extendable with on-board analog and digital I/Os allows signals and sensors to be directly connected to the Netbiter gateway
- Transparent Modbus RTU to TCP gateway functionality
- Built-in temperature sensor
- Six status LEDs for detailed diagnostics
- Can be used with Remote Access, View & Control and Manage & Analyse Netbiter Services
- Dimensions: 25.6H x 135W x 92D mm

Using EC350 for View and Control / Manage and Analyse



ETHERNET RADIO'S






The Most Powerful NanoStation Ever.



| ODER CODE | DESCRIPTION | PRICE |
|----------------|--|-------------------|
| UBAM-LOCOM2 | Ubiquiti A/M NanoStation Loco M2, 2.4GHz Mini Outdoor CPE TX 23dBm Gain 8dBi, incl PoE | R 1,980.00 |
| UBAM-NSM2 | Ubiquiti AirMax NanoStation M2: 2.4GHz Hi Power 2x2 MIMO AirMax TDMA Station, 2 LAN, incl PoE | R 3,533.33 |
| UBAM-PBEM2-400 | Ubiquiti AirMax PowerBeam M2: 2.4GHz Hi Power 2x2 MIMO, 18dBi TDMA Station, 400mm Dish, incl PoE | R 3,223.33 |
| UBAM-LOCOM5 | Ubiquiti A/M NanoStation Loco M5, 5GHz Mini Outdoor CPE TX 23dBm Gain 13dBi, incl PoE | R 2,713.33 |
| UBAM-NSM5 | Ubiquiti AirMax NanoStation M5: 5GHz Hi Power 2x2 MIMO AirMax TDMA Station, 2 LAN, incl PoE - | R 3,610.00 |
| UBAM-PBEM5-400 | Ubiquiti AirMax PowerBeam M5: 5GHz Hi Power 2x2 MIMO, 25dBi TDMA Station, 400mm Dish, incl PoE | R 3,820.00 |



MOUNTING ACCESSORIES

| | PRODUCT | DESCRIPTION | ORDER CODE | PRICE |
|---|------------------------|--|--|---|
|  | Single Offset Bracket | Single Offset Bracket 300mm | CLWM30 | R 1,380.00 |
|  | Aluminium Tubular Pole | 3m, Ø50mm, 5mm wt. 5m, Ø50mm, 5mm wt. 6m, Ø50mm, 5mm wt. | MSTALP5053 MSTALP5055 MSTALP5056 | R 1,080.00 R 1,860.00 R 2,200.00 |
|  | Telescopic Mast Kit | 13 Meter Telescopic Mast Kit includes: | Guy Kit: CLTRGYKIT50 Mast: RHTRH50 | R 6,650.00 |

LIGHTNING & SURGE PROTECTION

COPPER EARTHING STRAP



| ORDER CODE | DESCRIPTION | LENGTH | PRICE |
|------------|--|----------|-----------------|
| CUS-10 | 12x0.4MM PERFORATED COPPER EARTH STRAP 0.7mm O holes | 10m roll | R 160.00 |

EARTH RODS



| ORDER CODE | DESCRIPTION | MATERIAL | PRICE |
|------------|--|---------------------|-----------------|
| ER1216 | 1.2M X M16 EARTH ROD. 250 MICRONS COPPER | Copper Plated Steel | R 105.00 |

ACCESSORIES



| ORDER CODE | DESCRIPTION | MATERIAL | PRICE |
|------------|-------------|---------------------|----------------|
| ERA01 | Driving Cap | Case Hardened Steel | R 23.00 |
| ERA02 | Driving Tip | Case Hardened Steel | R 23.00 |
| ERA03 | Coupling | Brass | R 32.00 |
| ERA04 | 70mm Clamp | Brass | R 24.00 |



Modicon QUANTUM



| PART NUMBER | DESCRIPTION | PRICE |
|--|---|--------------|
| Quantum Unity Processors - Standard | | |
| 140CPU31110 | QUANTUM PROCESSOR FOR UNITY W/400K | R 40,973.12 |
| Quantum Unity Processors - High End | | |
| 140CPU31110 | QUANTUM PROCESSOR FOR UNITY W/400K | R 40,973.12 |
| 140CPU65150 | QUANTUM PROCESSOR- UNITY W/ 1024/7168K | R 76,833.35 |
| 140CPU65160 | QUANTUM PROCESSOR- UNITY W/ 2048/7168K | R 102,446.00 |
| TSXMRPC001M | SRAM MEM 1MB CONF | R 17,984.57 |
| Quantum Backplanes | | |
| 140XBP01000 | BACKPLANE 10 SLOT | R 5,274.54 |
| 140XBP01600 | BACKPLANE 16 SLOTS | R 7,237.16 |
| Quantum Power Supplies | | |
| 140CPS11420 | AC PS 115/230V SUMM | R 11,941.94 |
| Quantum Remote I/O (RIO) Modules | | |
| 140CRP31200 | QUANTUM ETHERNET RIO HEAD | R 18,562.35 |
| 140CRA31200 | QUANTUM ETHERNET/IP 1CH RIO DROP | R 16,874.87 |
| Quantum Ethernet Modules | | |
| 140NOE77101 | TSX QUANTUM ETHERNET 10/100 BASE T100FX | R 24,009.99 |
| 140NOE77111 | ETHERNET 10/100 BASE T100FX FACTORYCAST | R 33,423.00 |
| 140NOC77101 | ETHERNET/IP & MODBUS TCP QUANTUM MODULE | R 23,140.92 |
| TCSEGPA23F14F | PROFIBUS REMOTE MASTER | R 13,548.15 |
| Quantum Discrete Inputs | | |
| 140DAI54000 | AC IN 115V 16 X 1 | R 6,896.68 |
| 140DAI74000 | AC IN 230V 16 X 1 | R 6,896.68 |
| 140DDI35300 | DISCRETE DC INPUT MODULE 24V 4 X 8 SINK | R 8,108.42 |
| Quantum Discrete Outputs | | |
| 140DAO84210 | AC OUT 100-230V 4 X 4 | R 7,305.94 |
| 140DRA84000 | RELAY OUT 16 X 1 NO | R 8,108.42 |
| 140DDO35300 | DISCRETE DC OUTPUT 24V 4 X 8 SOURCE | R 9,730.56 |
| Quantum Analogue I/O | | |
| 140ACI04000 | ANALOG INPUT 16 CHAN CURRENT | R 25,978.34 |
| 140ATI03000 | TC IN 8CH | R 22,672.16 |
| 140ACO02000 | AN OUT 4CH CURR | R 16,216.83 |
| 140AVO02000 | ANALOG OUTPUT MODULE 4CH VOLT | R 16,532.09 |
| 140ACO13000 | ANALOG OUT 8 CHAN CURRENT | R 24,403.21 |
| Quantum Expert I/O | | |
| 140EHC20200 | HI-SPEED CTR 2CH 500KHZ | R 20,092.78 |
| Quantum Components | | |
| 990XCP98000 | QUANTUM CPU BATTERY FOR S | R 603.00 |
| 140XTS00200 | TERMINAL STRIP 40 POINTS | R 535.36 |
| UNYSPUEFUCD80 | UNITY PRO XL SINGLE LIC | R 64,389.28 |



Modicon M340



| PART NUMBER | DESCRIPTION | PRICE |
|------------------------------|-------------------------------------|-------------|
| M340 Backplanes | | |
| BMXXBE2005 | BACKPLANE EXTENDER KIT | R 8,096.94 |
| BMXXBP0800 | 8 SLOTS BACKPLANE | R 2,452.16 |
| BMXXBP1200 | 12 SLOTS BACKPLANE | R 3,973.95 |
| M340 Power Supply | | |
| BMXCPS2000 | STANDARD AC POWER SUPPLY | R 3,826.10 |
| BMXCPS3500 | HIGH POWER AC POWER SUPPLY | R 7,501.94 |
| M340 CPU | | |
| BMXP342020 | CPU340-20 MODBUS ETHERNET | R 16,646.41 |
| M340 Digital Modules | | |
| BMXDDI3202K | DIG 32I 24 VDC SINK | R 4,939.18 |
| BMXDDO3202K | DIG 32Q TRANS SOURCE 0.1A | R 5,811.87 |
| BMXDRA0805 | DIG 8Q ISOLATED RELAYS | R 3,045.97 |
| BMXDRA1605 | DIG 16Q RELAYS | R 3,973.95 |
| M340 Analogue Modules | | |
| BMXAMI0810 | ANA 8 U/I IN ISOLATED FAST | R 8,435.92 |
| BMXAMO0410 | ANA 4 U/I OUT ISOLATED | R 7,785.61 |
| BMXAMO0802 | ANA 8 CURRENT OUT NO ISOL | R 9,083.81 |
| M340 Expert Modules | | |
| BMXEHC0200 | HIGH SPEED COUNTER 2 CH | R 6,944.19 |
| M340 Networks | | |
| BMXNOE0100 | ETHERNET 10/100 RJ45 | R 15,164.63 |
| TCSEGPA23F14F | PROFIBUS REMOTE MASTER | R 13,548.15 |
| BMXCRA31200 | M340 RIO DROP E/IP STD | R 9,684.21 |
| BMXCRA31210 | M340 RIO DROP E/IP HIGH PERFORMANCE | R 14,248.50 |



Modicon M340



| PART NUMBER | DESCRIPTION | PRICE |
|---|-------------------------------------|-------------|
| M340 20-way FTB Terminal Blocks without Cable | | |
| BMXFTB2000 | SCREW TERMINAL STRIP 20 STD. POINTS | R 353.40 |
| M340 20-way FTB Terminal Blocks and Cables (flying lead) for Discrete I/O | | |
| BMXFTW301 | FTB 20 WIRE 3M CABLE | R 520.49 |
| M340 40-way FCN Connectors and Cables (flying lead) for Discrete I/O | | |
| BMXFCW301 | FCN 20 WIRE 3M CABLE | R 520.49 |
| M340 FTB Terminal Blocks & FCN Connectors with Cables (flying lead) for Analogue I/O | | |
| BMXFTW301S | FTB 20 WIRE 3M SHIELDED CABLE | R 836.62 |
| UNYSPUSFUCD80 | UNITY PRO S SINGLE LIC | R 10,377.61 |
| USB Programming Cables | | |
| BMXXCAUSBH018 | USB GROUNDED CABLE 1M8 | R 1,548.18 |



Modicon M580



| PART NUMBER | DESCRIPTION | PRICE |
|---------------------------------|--------------------------------|--------------|
| M580 Ethernet Backplanes | | |
| BMEXP0800 | 8 SLOTS ETHERNET BACKPLANE | R 3,308.55 |
| BMEXP1200 | 12 SLOTS ETHERNET BACKPLANE | R 4,709.25 |
| M580 CPU | | |
| BMEP582040 | M580 CPU LEVEL 20 – DIO & RIO | R 44,677.50 |
| BMEP583040 | M580 CPU LEVEL 30 – DIO & RIO | R 70,035.00 |
| BMEP584040 | M580 CPU LEVEL 40 – DIO & RIO | R 101,430.00 |
| M580 Networks | | |
| BMECRA31210 | RIO DROP E/IP PERF ON ETHERNET | R 14,248.50 |



**Rockwell
Automation**

ControlLogix



| PART NUMBER | DESCRIPTION | PRICE |
|------------------------|--|---------------------|
| POWER SUPPLIES | | |
| 1756-PA72 | CONTROLLOGIX 120/240 VAC POWER SUPPLY | R 9,040.00 |
| 1756-PA75 | 85 - 265 VAC POWER SUPPLY (5V @ 13A) | R 9,830.00 |
| CHASSIS | | |
| 1756-A10 | 10 SLOT CONTROLLOGIX CHASSIS | R 5,420.00 |
| 1756-A13 | 13 SLOT CONTROLLOGIX CHASSIS | R 6,500.00 |
| 1756-A17 | 17 SLOT CONTROLLOGIX CHASSIS | R 7,680.00 |
| 1756-A4 | 4 SLOT CONTROLLOGIX CHASSIS | R 2,920.00 |
| 1756-A7 | 7 SLOT CONTROLLOGIX CHASSIS | R 4,450.00 |
| CPU'S | | |
| 1756-L71 | LOGIX 5573 PROCESSOR WITH 2MBYTE MEMORY | R 47,200.00 |
| 1756-L72 | LOGIX 5573 PROCESSOR WITH 4MBYTE MEMORY | R 68,400.00 |
| 1756-L73 | LOGIX 5573 PROCESSOR WITH 8MBYTE MEMORY | R 98,700.00 |
| 1756-L74 | LOGIX 5574 PROCESSOR WITH 16MBYTE MEMORY | R 122,100.00 |
| 1756-L75 | CONTROL LOGIX 32 MB CONTROLLER | R 162,300.00 |
| DIGITAL INPUTS | | |
| 1756-IA16 | 79-132 VAC INPUT 16 PTS (20 PIN) | R 4,060.00 |
| 1756-IA16I | 79-132 VAC ISOLATED INPUT 16 PTS (36 PIN) | R 5,110.00 |
| 1756-IA32 | 74-132 VAC INPUT 32 PTS (36P) | R 7,600.00 |
| 1756-IB16 | 10-31 VDC INPUT 16 PTS (20 PIN) | R 3,140.00 |
| 1756-IB16I | 10-30 VDC ISOLATED INPUT 16 PTS (36 PIN) | R 4,890.00 |
| 1756-IB32 | 10-31 VDC INPUT 32 PTS (36 PIN) | R 4,160.00 |
| DIGITAL OUTPUTS | | |
| 1756-OA16 | 74-265 VAC OUTPUT 16 PTS (20 PIN) | R 5,740.00 |
| 1756-OA16I | 74-265 VAC ISOLATED OUTPUT 16 PTS (36 PIN) | R 7,160.00 |
| 1756-OB16I | 10-30 VDC ISOLATED OUTPUT 16 PTS (36 PIN) | R 6,110.00 |
| 1756-OB32 | 10-31 VDC OUTPUT 32 PTS (36 PIN) | R 5,890.00 |
| 1756-OW16I | N.O. ISOLATED RELAY OUTPUT 16 PTS (36 PIN) | R 5,500.00 |



ControlLogix



| PART NUMBER | DESCRIPTION | PRICE |
|------------------------------|--|--------------------|
| ANALOG INPUTS | | |
| 1756-IF16 | ANALOGUE INPUT - CURRENT/VOLTAGE 16 PTS (36 PIN) | R 13,700.00 |
| 1756-IF4FXOF2F | FAST ANALOGUE 4 CUR-VOLT IN/2 CUR-VOLT OUT (36 PIN) | R 20,500.00 |
| 1756-IF6I | ISOLATED ANALOGUE INPUT-CURRENT/VOLTAGE 6 PTS(20PIN) | R 18,600.00 |
| 1756-IF8 | ANALOGUE INPUT - CURRENT/VOLTAGE 8 PTS (36 PIN) | R 9,370.00 |
| 1756-IF8H | ANALOG INPUT W/HART 8PT (36 PIN) | R 12,000.00 |
| 1756-IR6I | ISOLATED RTD INPUT 6 PTS (20 PIN) | R 20,200.00 |
| 1756-IT6I | ISOLATED THERMOCOUPLE/MV INPUT 6 PTS (20 PIN) | R 24,700.00 |
| ANALOG OUTPUTS | | |
| 1756-OF4 | ANALOGUE OUTPUT - CURRENT/VOLTAGE 4 PTS (20 PIN) | R 10,500.00 |
| 1756-OF6CI | ISOLATED ANALOGUE OUTPUT - CURRENT 6 PTS (20 PIN) | R 22,600.00 |
| 1756-OF6VI | ISOLATED ANALOGUE OUTPUT - VOLTAGE 6 PTS (20 PIN) | R 22,600.00 |
| 1756-OF8 | ANALOGUE OUTPUT - CURRENT/VOLTAGE 8 PTS (20 PIN) | R 17,600.00 |
| COMMUNICATION OPTIONS | | |
| 1756-CNB | CONTROL NET BRIDGE MODULE | R 14,000.00 |
| 1756-CNBR | CONTROL NET REDUNDANT BRIDGE MODULE | R 19,500.00 |
| 1756-CN2 | CONTROLNET INFACE MODULE (100 CONNECTIONS) | R 19,600.00 |
| 1756-CN2R | CONTROLNET REDUNDANT INFACE MODULE (100 CONNECTIONS) | R 24,500.00 |
| 1756-DNB | DEVICE NET BRIDGE/SCANNER MODULE | R 10,900.00 |
| 1756-EN2F | CLX HI CAPACITY ETHERNET/IP MODULE -FIBRE | R 28,500.00 |
| 1756-EN2T | CONTROLLOGIX HIGH CAPACITY ETHERNET/IP MODULE - TP | R 24,700.00 |
| 1756-EN2TR | 2-PORT CLX HI-CAP ENET/P | R 26,000.00 |
| 1756-ENBT | CLX ETHERNET/IP 10/100 BRIDGE MODULE - TWISTED PR | R 20,700.00 |
| SPECIAL MODULES | | |
| 1756-HSC | HIGH SPEED COUNTER | R 9,370.00 |
| 1756-IR6I | ISOLATED RTD INPUT 6 PTS (20 PIN) | R 20,200.00 |
| 1756-IT6I | ISOLATED THERMOCOUPLE/MV INPUT 6 PTS (20 PIN) | R 24,700.00 |
| ACCESSORIES | | |
| 1756-TBCH | 36 PIN SCREW CLAMP BLOCK WITH STANDARD HOUSING | R 775.00 |
| 1756-TBNH | 20 POSITION NEMA SCREW CLAMP BLOCK WITH STANDARD HOUSING | R 608.00 |





Rockwell Automation

CompactLogix



| PART NUMBER | DESCRIPTION | PRICE |
|-----------------------|---|--------------------|
| POWER SUPPLIES | | |
| 1769-PA2 | 120/240 VAC INPUT POWER SUPPLY 2 AMPS @ 5 VDC OUTPUT | R 2,440.00 |
| 1769-PA4 | 120/240 VAC INPUT POWER SUPPLY 4A @ 5V DC, 2A @ 24V DC | R 4,030.00 |
| 1769-PB2 | 24 VDC INPUT POWER SUPPLY 2 AMPS @ 5 VDC OUTPUT | R 2,440.00 |
| 1769-PB4 | 24V DC INPUT POWER SUPPLY: 4A @ 5V DC 2A @ 24V DC | R 4,030.00 |
| CPU'S | | |
| 1769-L16ER-BB1B | Dual Ethernet w/DLR capability, 384KB Memory, 6 I/O Expansion via 1734 POINT I/O, 4 Ethernet IP Nodes, 24VDC. This Controller uses POINT I/O (1734) backplane. Controllers are shipped with 1GB SD card and can support up to 2GB SD card. | R 12,500.00 |
| 1769-L18ER-BB1B | Dual Ethernet w/DLR capability, 512KB Memory, 8 I/O Expansion via 1734 POINT I/O, 8 Ethernet IP Nodes, 24VDC. This Controller uses POINT I/O (1734) backplane. Controllers are shipped with 1GB SD card and can support up to 2GB SD card. | R 15,200.00 |
| 1769-L24ER-QB1B | CompactLogix 5370 L2 Controller, 2 EtherNet/IP ports with Device Level Ring Capability, 750KB Memory, 16 DC Inputs, 16 DC Outputs, Up To 4 1769 I/O Expansion Modules, 8 EtherNet/IP and 120 TCP Connections, 24V DC Input Embedded Power Supply, With 1GB SD Card, Can Support Up To 2GB SD Card, 1 USB Port. | R 16,300.00 |
| 1769-L24ER-QBFC1B | CompactLogix 5370 L2 Controller, 2 EtherNet/IP Ports With Device Level Ring Capability, 750KB Memory, 16 DC Inputs, 16 DC Outputs, 4 Universal Analog Inputs, 2 Analog Outputs, 4 High Speed Counters, Up To 4 1769 I/O Expansion Modules, 8 EtherNet/IP And 120 TCP Connections, 24V DC Input Embedded Power Supply, With 1GB SD card, Can Support Up To 2GB SD Card, 1 USB Port. | R 22,500.00 |
| 1769-L27ERM-QBFC1B | CompactLogix 5370 L2 Controller, 2 EtherNet/IP Ports with Device Level Ring Capability, 1MB Memory, 16 DC Onputs, 16 DC Outputs, 4 Universal Analog Inputs, 2 Analog Outputs, 4 High Speed Counters, Up To 4 1769 I/O Expansion Modules, 4 CIP Motion Axis With Kinematics Function, 16 EtherNet/IP and 120 TCP Connections, 24V DC Embedded Power Supply, With 1GB SD Card, Can Support Up To 2GB SD Card, 1 USB Port. | R 30,500.00 |
| 1769-L30ER | Dual Ethernet w/DLR capability, 1MB Memory, 8 I/O Expansion, 16 Ethernet IP Nodes. Controllers are shipped with 1GB SD card and can support up to 2GB SD card. | R 22,500.00 |
| 1769-L30ERM | COMPACTLOGIX 1MB MEMORY CONTROLLER | R 27,900.00 |
| 1769-L33ER | Dual Ethernet w/DLR capability, 2MB memory, 16 I/O Expansion, 32 Ethernet IP Nodes. Controllers are shipped with 1GB SD card and can support up to 2GB SD card. | R 26,900.00 |
| 1769-L33ERM | COMPACTLOGIX 2MB MEMORY CONTROLLER | R 33,100.00 |
| 1769-L36ERM | COMPACTLOGIX 3 MB MEMORY CONTROLLER | R 39,100.00 |
| DIGITAL INPUTS | | |
| 1769-IA16 | 16 POINT 120 VAC INPUT MODULE | R 2,520.00 |
| 1769-IM12 | 12 POINT 240 VAC INPUT MODULE | R 2,300.00 |
| 1769-IQ16 | 16 POINT 24 VDC SINKING/SOURCING INPUT MODULE | R 2,150.00 |
| 1769-IQ32 | 1769 32 POINT 24VDC INPUT MODULE | R 3,770.00 |



CompactLogix



| PART NUMBER | DESCRIPTION | PRICE |
|--------------------------------|---|-------------|
| DIGITAL OUTPUTS | | |
| 1769-OA16 | 16 POINT 120/240 VAC OUTPUT MODULE | R 3,850.00 |
| 1769-OB16 | 16 POINT 24 VDC SOURCING OUTPUT MODULE | R 2,800.00 |
| 1769-OB32 | 1769 32 POINT 24VDC OUTPUT MODULE | R 4,570.00 |
| 1769-OW8 | 8 POINT VAC/VDC RELAY OUTPUT MODULE | R 1,920.00 |
| 1769-OW8I | 8 POINT VAC/VDC INDIVIDUALLY ISOLATED RELAY OUTPUT MODULE | R 2,610.00 |
| 1769-OW16 | 16 POINT VAC/VDC RELAY OUTPUT MODULE | R 3,560.00 |
| ANALOG INPUTS | | |
| 1769-IF16C | 1769-IF16C, 16-CH ANALOG CURRENT | R 10,100.00 |
| 1769-IF16V | 1769-IF16V, 16-CH ANALOG VOLTAGE | R 10,200.00 |
| 1769-IF4 | 4 CHANNEL ANALOGUE CURRENT/VOLTAGE INPUT MODULE | R 4,320.00 |
| 1769-IF4I | 4 CHANNEL CURRENT/VOLTAGE ISOLATED ANALOG INPUT | R 8,210.00 |
| 1769-IF8 | 8 CHANNEL ANALOG VOLTAGE/CURRENT INPUT MODULE | R 6,920.00 |
| ANALOG OUTPUTS | | |
| 1769-OF2 | 2 CHANNEL ANALOGUE CURRENT/VOLTAGE OUTPUT MODULE | R 4,360.00 |
| 1769-OF4CI | 4 CHANNEL CURRENT ISOLATED ANALOG OUTPUT | R 9,840.00 |
| 1769-OF4VI | 4 CHANNEL VOLTAGE ISOLATED ANALOG OUTPUT | R 10,000.00 |
| 1769-OF8C | 8 CHANNEL ANALOG CURRENT OUTPUT MODULE | R 13,100.00 |
| 1769-OF8V | 8 CHANNEL ANALOG VOLTAGE OUTPUT MODULE | R 13,200.00 |
| COMBINATION I/O MODULES | | |
| 1769-IQ6XOW4 | COMBO 6PT 24 VDC SNK/SOU IN, 4PT VAC/VDC RELAY OUT | R 2,170.00 |
| 1769-IF4FXOF2F | FAST ANALOG 4 CUR-VOLT IN/2 CUR-VOLT OUT | R 8,770.00 |
| 1769-IF4XOF2 | 4 CHANNEL ANALOGUE INPUT, 2 CHANNEL OUTPUT COMBO LOW RESOL. | R 5,220.00 |
| COMMUNICATION OPTIONS | | |
| 1769-AENTR | Ethernet/IP Adaptor | R 8,140.00 |
| 1769-ADN | 1769 COMPACT I/O DEVICE NET ADAPTER | R 6,600.00 |
| 1769-SDN | DEVICE NET SCANNER FOR 1764 AND 1769 CONTROLLERS | R 7,640.00 |
| SPECIAL MODULES | | |
| 1769-HSC | 2/4 CHANNEL HIGH SPEED COUNTER/ENCODE MODULE | R 7,960.00 |
| 1769-IR6 | 6 CHANNEL RTD/RESISTANCE INPUT MODULE | R 9,330.00 |
| 1769-IT6 | 6 CHANNEL THERMOCOUPLE/MILLIVOLT INPUT MODULE | R 8,770.00 |
| ACCESSORIES | | |
| 1769-ECL | LEFT END CAP/TERMINATOR | R 390.00 |
| 1769-ECR | RIGHT END CAP/TERMINATOR | R 303.00 |



Rockwell Automation

CompactLogix



| PART NUMBER | DESCRIPTION | PRICE |
|--|---|--------------------|
| ACCESSORIES - CONTROL NET NETWORK | | |
| 1786-TPR | CONTROL NET T-TAP/RIGHT ANGLE | R 1,040.00 |
| 1786-TPS | CONTROL NET T-TAP/STRAIGHT | R 1,040.00 |
| 1786-XT | CONTROL NET 75 OHM TERMINATOR PLUG (SOLD IN LOTS OF 50) | R 86.00 |
| 1786-RG6 | CONTROL NET RG6 SHIELD HIGH FLEX CABLE-1000FT ROLL | R 5,790.00 |
| PROGRAMMING SOFTWARE | | |
| 9324-RLD250ENE | RSLogix 5000 Lite Edition English Compact Logix only) | R 19,100.00 |
| 9324-RLD300ENE | RSLOGIX 5000 STANDARD - CD-ROM | R 31,200.00 |
| 9324-RLD600ENE | RSLOGIX 5000 FULL EDITION, ENGLISH | R 55,500.00 |
| 9324-RLD700XENE | RSLOGIX 5000 PRO EDITION, ENGLISH | R 69,400.00 |

Micro 800



| | | |
|------------------|---|-------------------|
| 2080-LC10-12QWB | Micro810 Controller, 8IN 24VDC, 4AIN 0-10V, 4RLY, 24V PWR | R 927.00 |
| 2080-LC10-12AWA | Micro810 Controller, 8IN 120/240VAC, 4RLY, AC PWR | R 927.00 |
| 2080-LC10-12QBB | Micro810 Controller, 8IN 24VDC, 4AIN 0-10V, 4SRC, 24V PWR | R 927.00 |
| 2080-LC10-12DWD | Micro810 Controller, 8IN 12VDC, 4AIN 0-10V, 4RLY, DC-12V PWR | R 927.00 |
| 2080-LC20-20QWB | Micro820 Controller, 12 24VDC Inputs, 4 configurable analog input with thermistor voltage reference out, 7 Relay Output, 1 Analog Output, Embedded Ethernet Port and RS-232/485 non-isolated Serial port, Embedded RTC, MicroSD Card support, 2 Plug-In slots | R 3,190.00 |
| 2080-LC20-20QBB | Micro820 Controller, 12 24VDC Inputs, 4 configurable analog input with thermistor voltage reference out, 7 24VDC Output, 1 Analog Output, Embedded Ethernet Port and RS-232/485 non-isolated Serial port, Embedded RTC, MicroSD Card support, 2 Plug-In slots | R 3,190.00 |
| 2080-LC20-20QWBR | Micro820 Controller, 12 24VDC Inputs, 4 configurable analog input with thermistor voltage reference out, 7 Relay Output, 1 Analog Output, Embedded Ethernet Port and RS-232/485 non-isolated Serial port, Embedded RTC, MicroSD Card support, 2 Plug-In slots, with RTB terminals | R 5,040.00 |
| 2080-LC20-20QBRR | Miro820 Controller, 12 24VDC Inputs, 4 configurable analog input with thermistor voltage reference out, 7 24VDC Output, 1 Analog Output, Embedded Ethernet Port and RS-232/485 non-isolated Serial port Embedded RTC, MicroSD Card support, 2 Plug-In slots, with RTB terminals | R 5,040.00 |
| 2080-LC50-24QBB | Micro850 EtherNet /IP Controller, 14 24 VDC/VAC Inputs, 10 Source Output, 24 DC Input Power, Up to 4 HSC channels, Embedded USB Programming Port, Ethernet Port and Non-Isolated RS232/485 Serial Port, 3 Plug-In Ports | R 7,380.00 |
| 2080-LC50-24QWB | Micro850 EtherNet /IP Controller, 14 24 VDC/VAC Inputs, 10 Relay Output, 24 DC Input Power, Up to 4 HSC channels, Embedded USB Programming Port, Ethernet Port and Non-Isolated RS232/485 Serial Port, 3 Plug-In Ports | R 7,380.00 |
| 2080-LC50-48AWB | Micro850 EtherNet /IP Controller, 28 120V AC Inputs, 20 Relay Output, 24 DC Input Power, Embedded USB Programming Port, Ethernet Port and Non-Isolated RS232/485 Serial Port, 5 Plug-In Ports | R 7,380.00 |
| 2080-LC50-48QBB | Micro850 EtherNet /IP Controller, 28 24 VDC/VAC Inputs, 20 Source Output, 24 DC Input Power, Up to 6 HSC channels, Embedded USB Programming Port, Ethernet Port and Non-Isolated RS232/485 Serial Port, 5 Plug-In Ports | R 7,380.00 |
| 2080-LC50-48QWB | Micro850 EtherNet /IP Controller, 28 24 VDC/VAC Inputs, 20 Relay Output, 24 DC Input Power, Up to 6 HSC channels, Embedded USB Programming Port, Ethernet Port and Non-Isolated RS232/485 Serial Port, 5 Plug-In Ports | R 7,380.00 |



Micro 800



| PART NUMBER | DESCRIPTION | PRICE |
|--------------------------------------|---|-------------------|
| PlugIns for 820,830 & 850 | | |
| 2080-DNET20 | 4-ch V/I Analog Input Unipolar 0-10V (non-isolated) | R 1,640.00 |
| 2080-IF4 | 2-ch V/I Analog Input Unipolar 0-10V (non-isolated) | R 1,640.00 |
| 2080-IF2 | 2-ch V/I Analog Input Unipolar 0-10V (non-isolated) | R 971.00 |
| 2080-OF2 | 2-ch V, 2-ch I Analog Output Unipolar (non-isolated) | R 971.00 |
| 2080-SERIALISOL | RS232/485 isolated serial port | R 762.00 |
| 2080-TRIMPOT6 | 6-ch Trim Pot Analog Input | R 1,090.00 |
| 2080-MEMBAK-RTC | Project, Data Log, Recipe Backup and High Accuracy RTC | R 1,090.00 |
| 2080-MOT-HSC | High Speed Counter, 4 inputs with Line Driver, 250KHz | R 1,090.00 |
| 2080-RTD2 | 2-ch RTD Input (non-isolated) | R 1,200.00 |
| 2080-TC2 | 2-ch Thermocouple Input (non-isolated) | R 1,200.00 |
| 2080-IQ4 | 4-ch Digital Input module | R 541.00 |
| 2080-IQ4OB4 | 4-ch Digital Input / Output combination module | R 871.00 |
| 2080-OB4 | 4-ch Digital Output module | R 541.00 |
| 2080-OW4I | 4-ch Relay Output Module | R 762.00 |
| Only Mico 850 | | |
| 2085-IQ16 | Micro800 Input Module, Digital, 16 Point, 12/24VDC, Sink/Source , IEC | R 1,530.00 |
| 2085-OB16 | Micro800 Output Module, Digital, 16 Point, 12/24VDC, Source | R 1,920.00 |
| 2085-OW8 | Micro800 Output Module, Digital, 8 Point, 12/24VDC, Relay, 2A | R 1,250.00 |
| 2085-OW16 | Micro800 Output Module, Digital, 16 Point, 12/24VDC, Relay, 2A | R 1,870.00 |
| 2085-IA8 | Micro800 Input Module, Digital, 8 Point, 120 VAC | R 1,200.00 |
| 2085-IM8 | Micro800 Input Module, Digital, 8 Point, 240 VAC | R 1,200.00 |
| 2085-OA8 | Micro800 Output Module, Digital, 8 Point, 120/240V AC, Triac | R 1,530.00 |
| 2085-IF4 | Micro800 Input Module, Analog, Voltage/Current, 4 Channels, Bipolar, +-10V, 0-20mA | R 2,420.00 |
| 2085-IF8 | Micro800 Input Module, Analog, Voltage/Current, 8 Channels, Bipolar, +-10V, 0-20mA | R 4,160.00 |
| 2085-OF4 | Micro800 Output Module, Analog, Voltage/Current, 4 Channels, Bipolar, +-10V, 0-20mA | R 2,420.00 |
| 2085-IRT4 | Micro800 Input Module, Analog, Thermocouple/RTD, 4 Channels | R 3,720.00 |
| 2085-ECR | Micro800 Expansion I/O End Caps / Terminator | R 164.00 |



Rockwell Automation

Micro 800

| PART NUMBER | DESCRIPTION | PRICE |
|---|---|--------------------|
| Extras | | |
| 2080-USBADAPTER | USB Adapter Plug for Micro810 12-pt only | R 219.00 |
| 2080-LCD | 1.5 LCD Display and Keypad, for Micro810 only | R 327.00 |
| 2080-REMLCD | LCD Display and Keypad, for Micro820 only | R 1,640.00 |
| 2080-PS120-240VAC | 120/240VAC to 24VDC Power Supply for Controller and Exp I/O | R 524.00 |
| PanelView Component for Micro800 | | |
| 2711R-T4T | PanelView 800, 4.3 in HMI Terminal, Touch Screen TFT, Serial and Ethernet ports | R 3,630.00 |
| 2711R-T7T | PanelView 800, 7 in HMI Terminal, Touch Screen TFT, Serial and Ethernet ports | R 6,900.00 |
| 2711P-K4M20D8 | 400 Model, Keypad, Grayscale, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 7,620.00 |
| 2711P-K4C20D8 | 400 Model, Keypad, Color, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 9,160.00 |
| 2711P-B4C20D8 | 400 Model, Keypad/Touch, Color, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 9,770.00 |
| 2711P-K6M20D8 | 600 Model, Keypad, Grayscale, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 15,800.00 |
| 2711P-T6M20D8 | 600 Model, Touch Screen, Grayscale, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 13,300.00 |
| 2711P-B6M20D8 | 600 Model, Keypad/Touch, Grayscale, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 16,800.00 |
| 2711P-K6C20D8 | 600 Model, Keypad, Color, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 21,800.00 |
| 2711P-T6C20D8 | 600 Model, Touch Screen, Color, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 19,400.00 |
| 2711P-B6C20D8 | 600 Model, Keypad/Touch, Color, Ethernet and RS-232 Communication, DC Input, Windows CE 6.0 | R 23,200.00 |

| PART NUMBER | DESCRIPTION | PRICE |
|---|---|--------------------|
| THE BELOW COMES WITH STANDARD - Color, Standard Communication Ethernet & RS-232, DC Input, Windows CE 6.0 with Extended Features | | |
| 2711P-T7C4D8 | 700 Model, Touch Screen | R 27,500.00 |
| 2711P-B7C4D8 | 700 Model, Keypad/Touch | R 30,300.00 |
| 2711P-T10C4D8 | 1000 Model, Touch Screen | R 36,600.00 |
| 2711P-B10C4D8 | 1000 Model, Keypad/Touch | R 39,400.00 |
| 2711P-T10C4D9 | 1000 Model, Touch Screen | R 39,000.00 |
| 2711P-B10C4D9 | 1000 Model, Keypad/Touch | R 41,500.00 |
| 2711P-T12C4D8 | 1250 Model, Touch Screen | R 45,800.00 |
| 2711P-B12C4D8 | 1250 Model, Keypad/Touch | R 48,700.00 |
| 2711P-T12C4D9 | 1250 Model, Touch Screen | R 48,300.00 |
| 2711P-T15C4D9 | 1500 Model, Touch Screen | R 57,400.00 |
| PROGRAMMING SOFTWARE | | |
| 9701-VWSTMENE | FactoryTalk View Studio for Machine Edition | R 9,050.00 |
| 9701-VWSTENE | FactoryTalk View Studio for FactoryTalk View Enterprise | R 26,600.00 |





SIEMENS S7-1200



| PART NO. | DESCRIPTION | PRICE |
|--|---|--------------------|
| LOW LEVEL PERFORMANCE RANGE PLC | | |
| 6ES7212-1BE40-0XB0 | CPU 1212C, COMPACT CPU, AC/DC/RLY, ONBOARD I/O: 8 DI 24V DC; 6 DO RELAY 2A; 2 AI 0 - 10V DC, POWER PROGRAM/DATA MEMORY: 75 KB | R 3,400.00 |
| 6ES7214-1BG40-0XB0 | CPU 1214C, COMPACT CPU, AC/DC/RLY, ONBOARD I/O: 14 DI 24V DC; 10 DO RELAY 2A; 2AI 0 - 10V DC, PROGRAM/DATA MEMORY: 100 KB | R 5,140.00 |
| 6ES7215-1BG40-0XB0 | CPU 1215C, COMPACT CPU, AC/DC/RELAY, 2 PROFINET PORT, ONBOARD I/O: 14 DI 24V DC; 10 DO RELAY 2A, 2 AI 0-10V DC, 2 AO 0-20MA DC, PROGRAM/DATA MEMORY: 125 KB | R 7,750.00 |
| DIGITAL I/O | | |
| 6ES7221-1BF32-0XB0 | SM 1221, 8DI, 24V DC, SINK/SOURCE INPUT | R 1,540.00 |
| 6ES7221-1BH32-0XB0 | SM 1221, 16 DI, 24VDC, SINK/SOURCE INPUT | R 2,440.00 |
| 6ES7222-1HF32-0XB0 | SM 1222, 8 DO, RELAY 2A | R 1,490.00 |
| 6ES7222-1HH32-0XB0 | SM 1222, 16 DO, RELAY 2A | R 2,369.00 |
| 6ES7223-1PL32-0XB0 | SM 1223, 16DI/ 16DO, 16DI DC 24V, SINK/SOURCE, 16DO, RELAY 2A | R 3,740.00 |
| ANALOG I/O | | |
| 6ES7231-4HD32-0XB0 | SM 1231, 4AI, +/-10V, +/-5V, +/-2.5V, OR 0-20mA 12 BIT+ SIGN BIT (13BIT ADC) | R 3,160.00 |
| 6ES7231-5ND32-0XB0 | SM 1231, 8 AI, +/-10V, +/-5V, +/-2.5V, OR 0-20 MA 12 BIT + SIGN OR (13 BIT ADC) | R 5,140.00 |
| 6ES7232-4HB32-0XB0 | SM 1232, 2 AO, +/-10V, 14 BIT RESOLUTION, OR 0-20 MA, 13 BIT RESOLUTION | R 3,340.00 |
| 6ES7232-4HD32-0XB0 | SM 1232, 4 AO, +/-10V, 14 BIT RESOLUTION, OR 0-20 MA, 13 BIT RESOLUTION | R 5,320.00 |
| COMMUNICATION | | |
| 6ES7241-1CH32-0XB0 | CM 1241, RS485, 9 PIN SUB D (MALE), SUPPORTS MESSAGE BASED FREEPORT | R 1,740.00 |
| 6GK7242-7KX31-0XE0 | CP 1242-7 FOR CONNECTION OF SIMATIC S7-1200 TO GSM/GPRS NET | R 10,100.00 |
| 6GK7243-5DX30-0XE0 | CM 1243-5 FOR CONNECTION OF SIMATIC S7-1200 TO PROFIBUS AS DP MASTER MODULE | R 7,770.00 |

SIEMENS S7-300

| | | |
|--|---|--------------------|
| MID LEVEL PERFORMANCE RANGE PLC | | |
| 6ES7315-2AH14-0AB0 | CPU 315-2DP CPU WITH MPI INTERFACE INTEGRATED 24 V DC POWER SUPPLY 256 KB | R 26,700.00 |
| 6ES7315-2EH14-0AB0 | CPU 315-2 PN/DP, 384 KB MEMORY, 1. INTERFACE MPI/DP 12MBIT/S, 2. INTERFACE | R 37,700.00 |
| 6ES7317-2EK14-0AB0 | CPU 317-2 PN/DP, WITH 1 MB MEMORY, 1. INTERFACE MPI/DP 12MBIT/S, 2. INTERFACE | R 66,600.00 |
| DIGITAL I/O | | |
| 6ES7321-1BH02-0AA0 | SM 321, OPT ISOLATED, 16DI, 24 V DC, 1 X 20 PIN | R 2,870.00 |
| 6ES7321-1BL00-0AA0 | SM 321, OPT ISOLATED 32DI, 24 V DC, 1 X 40 PIN | R 5,770.00 |
| 6ES7321-1FH00-0AA0 | SM 321, OPT ISOLATED 16 DI, 120/230V AC, 1 X 20 PIN | R 3,690.00 |
| 6ES7322-1HF01-0AA0 | SM 322, OPT ISOLATED, 8 DO (RELAY), 1 X 20 PIN24V DC, 2A OR 230V AC, 2A | R 2,770.00 |
| 6ES7322-1HH01-0AA0 | SM 322, OPT 16DO, RELAY CONTACT'S, 1 X 20 PIN | R 5,920.00 |
| 6ES7322-1BL00-0AA0 | SM 322, OPTICALLY ISOLATED, 32DO, 24V DC, 0.5A, 1 X 40 PIN | R 7,970.00 |



SIEMENS

SIEMENS S7-300



| PART NO. | DESCRIPTION | PRICE |
|----------------------------|--|--------------------|
| ANALOG I/O | | |
| 6ES7331-7KF02-0AB0 | SM 331, OPTICALLY ISOLATED, 8AI, RESOLUTION 9/12/14 BITS, U/I/THERMOCOUPLE/ | R 11,000.00 |
| 6ES7331-7PF01-0AB0 | SM 331, OPT. ISOL., 2/3/4 WIRE, 8AI, RESISTANCE, PT100/200/100 | R 13,200.00 |
| 6ES7331-7PF11-0AB0 | SM 331, OPT ISOLATED, 8 AI THERMOCOUPLE, TYPE B, E, J, K, L, N, R, S, T | R 13,200.00 |
| 6ES7332-5HD01-0AB0 | SM 332, OPT ISOLATED, 4 AO, U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 20 PIN | R 9,180.00 |
| 6ES7332-5HF00-0AB0 | SM 332, OPT ISOLATED, 8 AO, U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 40 PIN | R 17,100.00 |
| MEMORY CARD | | |
| 6ES7953-8LJ30-0AA0 | S7-300/C7/ET 200, 3.3 V NFLASH, 512 KBYTES | R 3,260.00 |
| 6ES7953-8LL31-0AA0 | S7-300/C7/ET 200, 3.3 V NFLASH, 2 MBYTES | R 4,670.00 |
| COMMUNICATION | | |
| 6GK7342-5DA03-0XE0 | CP342-5 FOR CONNECTING SIMATIC S7-300 TO PROFIBUS, DP, S5-COMPATIBLE-, PG/ | R 16,400.00 |
| 6GK7343-1CX10-0XE0 | SIMATIC NET, CP 343-1 LEAN COMMUNICATION PROCESSOR FOR CONNECTING SIMATIC S7-300 TO IND. ETHERNET VIA TCP/IP AND UDP, MULTICAST, SEND/RECEIVE W. | R 14,700.00 |
| ET200M | | |
| 6ES7153-1AA03-0XB0 | SIMATIC DP, INTERFACE IM 153-1, FOR ET 200M, FOR MAX. 8 S7-300 MODULES | R 4,860.00 |
| 6ES7153-2BA02-0XB0 | SIMATIC DP, ET 200M INTERFACE IM 153-2 HIGH FEATURE FOR MAX. 12 S7-300 MODULES, WITH REDUNDANCY | R 7,380.00 |
| 6ES7153-4AA01-0XB0 | SIMATIC DP, ET 200M INTERFACE IM 153-4 PN IO FOR MAX. 12 S7-300 MODULES | R 4,860.00 |
| POWER SUPPLIES | | |
| 6ES7307-1EA01-0AA0 | PS307 INPUT: 120/230 V AC OUTPUT: 24 V DC/5 A | R 2,530.00 |
| 6ES7307-1KA02-0AA0 | PS307 INPUT: 120/230 V AC OUTPUT: 24 V DC/10 A | R 3,240.00 |
| CONNECTORS AND RAIL | | |
| 6ES7390-1AB60-0AA0 | SIMATIC S7-300, RAIL L=160MM | R 346.00 |
| 6ES7390-1AE80-0AA0 | SIMATIC S7-300, RAIL L=480MM | R 537.00 |
| 6ES7392-1AJ00-0AA0 | SIMATIC S7-300, FRONT CONNECTOR FOR SIGNAL MODULES WITH SCREW | R 419.00 |
| 6ES7392-1AM00-0AA0 | SIMATIC S7-300, FRONT CONNECTOR 392 WITH SCREW CONTACTS, 40-PIN | R 662.00 |



SIEMENS S7-400



| PART NO. | DESCRIPTION | PRICE |
|---|--|---------------------|
| HIGH LEVEL PERFORMANCE RANGE PLC | | |
| 6ES7414-3XM05-0AB0 | CPU 414-3 CENTRAL PROCESSING UNIT WITH: 2.8 MB WORKING MEMORY, | R 99,000.00 |
| 6ES7416-2XN05-0AB0 | CPU 416-2 CENTRAL PROCESSING UNIT WITH: 5.6 MB WORKING MEMORY, | R 139,000.00 |
| 6ES7412-2EK06-0AB0 | SIMATIC S7-400, CPU 412-2 PN CENTRAL PROCESSING UNIT WITH: 1 MB WORKING MEMORY, (0,5 MB CODE, 0,5 MB DATA), INTERFACES: 1. IF MPI/DP 12 MBIT/S (X1), 2.IF ETHERNET/PROFINET (X5) | R 50,600.00 |
| DIGITAL I/O | | |
| 6ES7421-1BL01-0AA0 | SM 421 DIGITAL INPUT MODULE, OPTIC. ISOLATED, 32 DI, 24V DC | R 5,440.00 |
| 6ES7421-1FH20-0AA0 | DIG. INPUT MOD. SM 421, OPTIC. ISOLATED, 16 DI, 120/230V UC INPUTS | R 6,010.00 |
| 6ES7422-1BL00-0AA0 | SM 422 DIGITAL OUTPUT MODULE, OPTIC. ISOLATED, 32 DO, 24V DC, 0.5A | R 8,010.00 |
| 6ES7422-1FH00-0AA0 | SM 422 DIGITAL OUTPUT MODULE, OPTIC. ISOLATED, 16 DO, 120/230V AC, 2A | R 9,490.00 |
| 6ES7422-1HH00-0AA0 | SM 422 DIGITAL OUTPUT MODULE, OPTIC. ISOLATED, 16 DO, 5..230V AC, 5A RELAY | R 10,100.00 |
| ANALOG I/O | | |
| 6ES7431-0HH00-0AB0 | ANALOG INPUT SM 431, NON-ISOLATED 16 AI, RESOLUTION 13 BITS, +/-10V | R 15,200.00 |
| 6ES7431-1KF00-0AB0 | SM 431 ANALOG INPUT MODULE OPTIC. ISOLATED, 8 AI, 13 BIT RESOLUTION | R 11,400.00 |
| 6ES7431-7KF10-0AB0 | ANALOG INPUT SM 431, 8AI; 16 BIT RESOLUTION, RESIST./PT100/ NI100 | R 16,700.00 |
| 6ES7432-1HF00-0AB0 | SM 432 ANALOG OUTPUT MODULE OPTIC. ISOLATED, 8 AO, 13 BIT RESOLUTION, U/I | R 17,800.00 |
| POWER SUPPLIES | | |
| 6ES7407-0KA02-0AA0 | SIMATIC S7-400, POWER SUPPLY PS407: 10A, WIDE RANGE, 120/230V UC, 5V DC/10A | R 11,600.00 |
| 6ES7407-0KR02-0AA0 | SIMATIC S7-400, POWER SUPPLY PS407: 10A, WIDE RANGE, 120/230V UC | R 14,500.00 |
| COMMUNICATION | | |
| 6GK7443-1EX30-0XE0 | COMMUNICATIONSPROCESSOR CP443-1 FOR CONNECTING SIMATIC S7-400 TO INDUST. ETHERN. VIA ISO, TCP/IP AND UDP, S7-COMM. | R 39,900.00 |
| 6GK7443-5DX05-0XE0 | COMMUNICATION PROCESSOR CP443-5 EXTENDED FOR CONNECT. OF SIMATIC S7-400 TO PROFIBUS | R 25,200.00 |
| RACKS AND CONNECTORS | | |
| 6ES7400-1JA01-0AA0 | UR2 RACK, CENTRALIZED AND DISTRIBUTED WITH 9 SLOTS 2 REDUNDANT | R 8,030.00 |
| 6ES7400-1TA01-0AA0 | UR1 RACK, CENTRALIZED AND DISTRIBUTED WITH 18 SLOTS 2 REDUNDANT | R 15,500.00 |
| 6ES7492-1AL00-0AA0 | FRONT CONNECTOR FOR SIGNAL MODULES WITH SCREW-TYPE CONTACT | R 717.00 |





SIEMENS

SIEMENS S7-1500



| PART NO. | DESCRIPTION | PRICE |
|--|--|-------------|
| HIGH LEVEL PERFORMANCE RANGE PLC | | |
| 6ES7511-1AK00-0AB0 | CPU 1511-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 150 KB FOR PROGRAM AND 1 MB FOR DATA, | R 11,700.00 |
| 6ES7513-1AL00-0AB0 | CPU 1513-1 PN, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 300 KB FOR PROGRAM AND 1.5 MB FOR DATA, | R 26,000.00 |
| 6ES7516-3AN00-0AB0 | CPU 1516-3 PN/DP, CENTRAL PROCESSING UNIT WITH WORKING MEMORY 1 MB FOR PROGRAM AND 5 MB FOR DATA | R 64,000.00 |
| DIGITAL I/O | | |
| 6ES7521-1BH10-0AA0 | DIGITAL INPUT MODULE, DI16 X DC24V, 16 CHANNELS IN GROUPS OF 16; INCL. FRONT CONNECTOR PUSH-IN | R 3,550.00 |
| 6ES7521-1FH00-0AA0 | DIGITAL INPUT MODULE DI16 X AC230V | R 3,760.00 |
| 6ES7521-1BL10-0AA0 | SIMATIC S7-1500, ;INCL. FRONT CONNECTOR PUSH-IN | R 5,440.00 |
| 6ES7522-1BH10-0AA0 | DIGITAL OUTPUT MODULE, DQ 16 X 24VDC/0.5A;INCL. FRONT CONNECTOR PUSH-IN | R 3,770.00 |
| 6ES7522-1BL10-0AA0 | DIGITAL OUTPUT MODULE, DQ 32 X 24VDC/0.5A,INCL. FRONT CONNECTOR PUSH-IN | R 7,510.00 |
| ANALOG I/O | | |
| 6ES7531-7KF00-0AB0 | ANALOG INPUT MODULE AI 8 X U/I/RTD/TC, 16 BITS OF RESOLUTION, ACCURACY 0.3 % | R 10,200.00 |
| 6ES7531-7NF10-0AB0 | ANALOG INPUT MODULE AI 8 X U/I HS, 16 BITS OF RESOLUTION, ACCURACY 0.3 % | R 12,400.00 |
| 6ES7532-5HD00-0AB0 | ANALOG OUTPUT MODULE AQ 4 X U/I ST; 16 BITS OF RESOLUTION, ACCURACY 0.3 % | R 8,640.00 |
| 6ES7532-5HF00-0AB0 | ANALOG OUTPUT MODULE AQ 8 X U/I HS 16 BITS OF RESOLUTION, ACCURACY 0.3 %, | R 12,400.00 |
| POWER SUPPLIES | | |
| 6ES7505-0KA00-0AB0 | SYSTEM POWER SUPPLY PS 25W 24V DC, SUPPLIES THE OPERATING VOLTAGE FOR THE S7-1500 VIA THE BACKPLANE BUS | R 3,480.00 |
| 6EP1333-4BA00 | SIMATIC PM 1507 24 V/8 A STABILIZED POWER SUPPLY FOR SIMATIC S7-1500 INPUT: 120/230 V AC OUTPUT: 24 V/8 A DC | R 2,890.00 |
| COMMUNICATION | | |
| 6GK7542-5DX00-0XE0 | COMMUNICATION MODULE CM 1542-5 FOR CONNECTING S7-1500 TO PROFIBUS DP, DPV1-MASTER OR DP-SLAVE: DIAGNOSTICS | R 18,600.00 |
| RACKS AND CONNECTORS & MEMORY CARDS | | |
| 6ES7590-1AE80-0AA0 | MOUNTING RAIL 482 MM (APPR. 19 INCH) INCL. GROUNDING ELEMENT | R 508.00 |
| 6ES7590-1AF30-0AA0 | MOUNTING RAIL 530 MM (APPR. 13.8 INCH); INCL. GROUNDING ELEMENT, | R 621.00 |
| 6ES7590-1AJ30-0AA0 | MOUNTING RAIL 830 MM (APPR. 32,7 INCH); INCL. GROUNDING ELEMENT | R 809.00 |
| 6ES7592-1AM00-0XB0 | FRONTCONNECTOR SCREW-TYPE, 40PIN | R 621.00 |
| 6ES7954-8LE02-0AA0 | MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 12 MBYTE | R 2 760.00 |
| 6ES7954-8LC02-0AA0 | MEMORY CARD FOR S7-1X00 CPU/SINAMICS, 3,3 V FLASH, 4 MBYTE | R 786.00 |
| PROGRAMMING SOFTWARE | | |
| 6ES7810-2CC03-0YX0 | STEP7-MICRO/WIN V4.0, SINGLE LICENSE F.1 INSTALLATION E-SW. S7 200 PLC | R 7,350.00 |
| 6ES7810-4CC10-0YAS | STEP7 V5.5, FLOATING LICENSE FOR 1 USER, E-SW, SW AND DOCU. ON | R 33,200.00 |



PROGRAMMING SOFTWARE



| PART NO. | DESCRIPTION | PRICE |
|--------------------------|--|--------------------|
| 6ES7822-0AA03-0YA5 | STEP 7 BASIC V13 FLOATING LICENSE; ENGINEERING SOFTWARE IN TIA POTAL; WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT); FOR CONFIGURATION OF SIMATIC S7-1200 SIMATIC BASIC PANELS | R 6,080.00 |
| 6ES7822-1AA03-0YA5 | STEP 7 PROFESSIONAL V13 FLOATING LICENSE; ENGINEERING SOFTWARE IN TIA PORTAL WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8 SP1 (64 BIT); FOR CONFIGURATION OF SIMATIC S7-1200/1500, SIMATIC S7-300/400/WINAC, SIMATIC BASIC PANELS | R 38,400.00 |
| PROGRAMMING CABLE | | |
| 6GK1571-0BA00-0AA0 | PC ADAPTER USB A2 USB-ADAPTER (USB V2.0) FOR CONNECTING A PG/PC OR NOTEBOOK TO SIMATIC S7 USB CABLE 5M INCLUDED CAN BE USED UNDER WINXP/VISTA/ WINDOWS 7 32/64BIT | R 7,020.00 |



KVM SWITCHES - INDUSTRIAL GRADE

KVM EXTENDER - Industrial Grade

Extends keyboard, mouse and video ports on a computer for up to 300m by using a single cable (CAT5,CAT5E,CAT6). Consist out of sender & receiver

ORDER CODE: UKVM-300HDU (USB)

PRICE: R 1,800.00



USB EXTENDER - Industrial Grade

Extends computer's USB connector for up to 70 meters through a single UTP CAT5 cable

ORDER CODE: USB-1801

PRICE: R 330.00



RTU - PLC & I/O

| PICTURE | PART NO. | DESCRIPTION | PRICE |
|---------|-------------|---|-------------------|
| | WP 240 | DIN rail CoDeSys PLC with Ethernet, USB, SD, RTC, RS485, CAN | R 5,480.00 |
| | WP 240 HSPA | DIN rail CoDeSys PLC with Ethernet, USB, SD, RTC, RS485, CAN, HSPA modem | R 9,980.00 |
| | WP 240 GPRS | DIN rail CoDeSys PLC with Ethernet, USB, SD, RTC, RS485, CAN, GPRS modem | R 7,480.00 |
| | WP 240 COM | DIN rail CoDeSys PLC with Ethernet, USB, SD, RTC, RS485, CAN, RS485/RS232 | R 6,380.00 |
| | EX08AI | DIN rail I/O Modbus slave with 8 configurable analog inputs | R 3,640.00 |
| | EX1608DD | DIN rail I/O Modbus slave with 16 inputs + 8 outputs 24V 2A PNP | R 2,740.00 |
| | EX1600DD | DIN rail I/O Modbus slave with 16 inputs 24V PNP | R 2,080.00 |
| | EX0008DD | DIN rail I/O Modbus slave with 8 outputs 24V 2A PNP | R 2,480.00 |

Compact PLC for control and remote supervision of machines and plants

Typical Application:

- Automatic machines, Robotics
- Industrial plants, Control panels
- Building automation, Home Automation
- Networks Automation, Smart Grid
- Photovoltaic, Wind farm, Energy
- Data logging, Production Management
- Tele control, Telemetry, E-mobility, M2M
- Gateway for protocol conversion





COMPUTERS



| PART NO. | DESCRIPTION | PRICE |
|--|--|--------------------|
| | | |
| DELL OPTIFLEX PCs | | |
| SM010D3020MT 11HSWZA | OptiPlex 3020 MT: i3-4150 (3.4Ghz 3MB) 4GB(1x4GB) DDR3 1600MHZ, 500GB (7200Rpm) 3.5in Serial ATAI 3Gb/s,16XDVD+/-RW Drive, USB Keyboard & mouse, Windows 7 Pro (64 Bit Win 8 Licence, Media), 3Yr NBD | R 8,505.33 |
| SM016D3020MT 11HSWZA | OptiPlex 3020 MT: i5-4590 (3.2Ghz 6MB) 4GB(1x4GB) DDR3 1600MHZ, 500GB (7200Rpm) 3.5in Serial ATAI 3Gb/s, 16XDVD+/-RW Drive, USB Keyboard & mouse, Windows 7 Pro (64 Bit Win 8 Licence, Media), 3Yr NBD | R 10,046.67 |
| CA016D9020SFF 11HSW | OptiPlex 9020 SFF: Intel Core i7 4790 (3.6GHz 8MB), 8GB (2 x4GB) 1600MHZ, DDR3, 500GB SATA (7200 RPM), 16 x DVD +/- RW, Onbord Sound, AMD® Radeon R7250 2GB, USB Keyboard and Mouse, Intel vPro Enabled, Windows 7 Pro (64 BIT Win 8 Licence Media), 3 Yr NBD | R 19,506.67 |
| DELL POWER EDGE T110 TOWER SERVER PC | | |
| 210-ACCX-E5- 2407V2 | PowerEdge R320 12G Xeon E5-2407v2 8GB 1TB NLSAS - 3Yr Basic, Chassis with up to 4, 3.5" Hot Plug Hard Drives 1 S, Intel Xeon E5-2407 v2 2.40GHz 10M Cache 6.4GT/s QPI No Turbo 4C 80W Max Mem 1333MHz,8GB RDIMM, 1600 MHz, Low Volt, Dual Rank,1TB Nearline SAS 6Gbps 7.2k 3.5" HD Hot Plug Fully Assembled - Kit, Bezel - 4/8 Drive Chassis 1 S,PERC H310 Integrated RAID Controller (Hardware RAID 0,1,5,10,50),DVD, SATA, Internal for 4HDD chassis, Dual Hot Plug Power Supplies 350W,Video: Matrox® G200eR2 with 16 MB memory, Dual-Port Network Adapter, ReadyRails Rack Rails,iDRAC7 ENTERPRISE,' | R 67,153.33 |
| A6996754 400-16085 450-18454 P73-06165 R18-03755 ASSEMBLE | 3Yr Basic Warranty - Next Business Day. 8GB Dual Rank LV RDIMM 1600MHz - Kit 3 x 1TB SATA 7.2k 3.5" HD Hot Plug Fully Assembled - Kit Power Supply, 350W, Hot Plug - Kit Windows Server Standard 2012 R2 x64bit 2CPU/2VM. No CALS included Windows Server 2012 5 Clt User CAL ASSEMBLE + TEST + LOAD SOFTWARE + CONFIGURE | |
| 580-17609 | Keyboard : US/Int (QWERTY) KB212 Quiet key USB Keyboard | R 193.33 |
| 570-11147 | USB Mouse | R 118.67 |
| DELL MONITORS | | |
| 857-10601 | 19in P1913 Dell Professional 48cm(19in) LED VGA DVI-D DP (1440x900) Black SAF | R 2,566.67 |
| | | |
| HP DESKTOP 280 & 490 SERIES PCs | | |
| K8K33EA | HP 280 MT G1 Intel Core i3-4160 4GB-PC3-10600 (sng ch) 500GB HDD 7200 SATA DVD+/-RW Win 8 Pro downgraded to Win 7 Pro 64-bit 1-1-1 - SEA | R 8,726.67 |
| M3X08ES | HP 280 MT G1 Intel Core i5-4590S 4GB-PC3-10600 (sng ch) 1TB HDD 7200 SATA DVD+/-RW Win 8 Pro downgraded to Win 7 Pro 64-bit 1-1-1 - SEA | R 10,118.67 |
| J4B03EA | HP ProDesk 490 G2 MT Intel Core i3-4150 4GB DDR3-1600 DIMM (1x4GB) 500GB HDD 7200 SATA DVD+/-RW SD Media Card Reader Win 8.1 Pro downgrade to Win7 Pro 64 1-1-1 - AIR | R 9,606.67 |
| J4B01EA | HP ProDesk 490 G2 MT Intel Core i5-4590 4GB DDR3-1600 DIMM (1x4GB) 500GB HDD 7200 SATA DVD+/-RW SD Media Card Reader Win 8.1 Pro downgrade to Win7 Pro 64 1-1-1 - AIR | R 12,100.00 |



COMPUTERS



| PART NO. | DESCRIPTION | PRICE |
|--|--|--------------------|
| J4B05EA | HP ProDesk 490 G2 MT Intel Core i7-4790 8GB DDR3-1600 DIMM (1x8GB) 1TB HDD 7200 SATA NVIDIA GeForce GT 630 DP PCIe FH x16 DVD+/-RW SD Media Card Reader Win 8.1 Pro downgrade to Win7 Pro 64 1-1-1 - AIR | R 16,280.00 |
| U6578E | HP Next Day Onsite Response - 3 Year Next Day Onsite | R 358.67 |
| HP ML10 SERIES TOWER SERVER PC | | |
| 812266-425 669324-B21 815612-B21 659337-B21 624192-B21 | ProLiant Tower ML10 v2 Xeon E3-1220 v3 Smart Array B120i 4LFF NHP 1 x HP 1TB SATA 8GB (1x8GB) 350W PSU 1-0-0 Memory 8GB PC3-12800E(1x8Gb) DDR3 Un-buffered Gen 8 2 x HP 500GB 6G SATA 7.2K 3.5in NHP ETY HDD 1 x HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive HP Half Height SATA DVD RW Kit | R 17,140.00 |
| QY776AA | HP USB Keyboard | R 180.00 |
| QY777AA | HP USB Mouse | R 61.33 |
| U2GU0E | Foundation Care NBD Service, HW and Collab Support, 3 year | R 3,653.33 |
| P73-06165 | Windows Server Standard 2012 R2 x64bit 2CPU/2VM. No CALS included | R 12,960.00 |
| ASSEMBLE | ASSEMBLE + TEST + LOAD SOFTWARE+CONFIGURE | R 466.67 |
| HP DL360 SERIES RACK-MOUNT SERVER PC | | |
| 785836-B21 759934-B21 658071-B21 657750-B21 744689-B21 | HP ProLiant DL60 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core) 8GB (1x8GB RDIMMs) Smart Array B140i 4LFF SATA 550W 1-1-1 HP 8GB 2Rx8 PC4-2133P-R Kit 2 x Hard Drive Pluggable 500GB 6G SATA 7.2K LFF (3.5-Inch) Midline HDD 2 x Hard Drive Pluggable 1TB 6G SATA 7.2K LFF (3.5-Inch) Midline HDD HP 800W/900W Gold AC Power Input Module | R 48,105.33 |
| QY776AA | HP USB Keyboard | R 180.00 |
| QY777AA | HP USB Mouse | R 61.33 |
| U7VX4E | Foundation Care NBD Service, HW and Collab Support, 3 year | R 7,172.00 |
| P73-06165 | Windows Server Standard 2012 R2 x64bit 2CPU/2VM. No CALS included | R 12,960.00 |
| ASSEMBLE | ASSEMBLE + TEST + LOAD SOFTWARE+CONFIGURE | R 466.67 |
| HP MONITORS | | |
| B5M13AS | HP W2072a 20" LED LCD Monitor | R 1,838.67 |
| UD950E | HP 3 year Next business day Onsite Standard Monitor Hardware Support | R 86.67 |
| SOFTWARE | | |
| P73-06165 | Windows Server Standard 2012 R2 x64bit 2CPU/2VM. No CALS included | R 12,960.00 |
| R18-03755 | Windows Server 2012 5 Clt User CAL | R 2,631.25 |
| FPP-2013-HB | Microsoft Office 2013 Home & Business - Fully Packaged Product - Word, Excel, PowerPoint, Outlook & OneNote - Includes DVD, 1 User / 1 PC | R 3,300.00 |



INDUSTRIAL MONITOR



Features

- The Aluminium front panel meets IP65 standards for tough working environments
- Optional RS-232 interface touch screen
- Robust chassis and retention kit structure for shock and vibration requirement
- Brightness Over 300cd/m² and 50000hrs MTFB long lifetime panel
- Analog VGA interface supports most general system boards
- M models support 9~36V DC power input for mobile application

| PART NO. | DESCRIPTION | PRICE |
|----------------------------------|---|-------------|
| Display Monitor - 17"inch | | |
| DM-170GS/R-R20 | 17" 350cd/m ² SXGA LCD monitor, Aluminium front panel, Silver colour W/RS-232 and USB Touch screen, R30, RoHS (IP65) | R 10,945.00 |
| DM-170GMS/R-R21 | 17" 350cd/m ² SXGA LCD monitor, Aluminium front panel, Silver colour W/RS-232 and USB Touch screen, 9~36V DC input, R30, RoHS (IP65) | R 11,550.00 |
| Display Monitor - 19"inch | | |
| DM-190GS/R-R21 | 19" 350cd/m ² SXGA LCD monitor, Aluminium front panel, Silver colour W/RS-232 and USB Touch screen, R30, RoHS (IP65) | R 12,485.00 |
| DM-190GMS/R-R22 | 19" 350cd/m ² SXGA LCD monitor, Aluminium front panel, Silver colour W/RS-232 and USB Touch screen, 9~36V DC input, R30, RoHS (IP65) | R 13,145.00 |



Package Includes:

- AC power cable
- VGA cable
- User manual
- 1 Touch pen
- 60W AC power adapter
- 36W AC power adapter
- Power cable for terminal block
- Touch screen RS-232 Cable / USB Cable / Driver CDROM



INDUSTRIAL COMPUTER



Full spec sheets available for download: www.age.co.za

| PART NO. | DESCRIPTION | PRICE |
|---------------------------|--|-------------|
| ECW-281BWDW-R10/D2550/2GB | Fan less embedded system with WAFER-CV-D25501, with dual core Intel® Atom™ D2550 1.86G, built-in 802.11 b/g/n 2T2R wireless module, 4 serial ports, with 2GB DDR3 pre-installed SO-DIMM memory, 9~36VDC in, 60W power adapter, black, RoHS. NO HDD | R 9,735.00 |
| 72200-WD3200LPVX-RS | 2.5" HDD;2.5"; WD3200LPVX; WD;SATA3(6.0Gb/s); 320GB;5400RPM BUFFER SIZE: 8MB; CCL; RoHS | R 2,505.00 |
| LKM-9278GBC-EN-R20 | 17" LCD Monitor / Keyboard / Mouse / Speaker / KVMA Switch 5-in-1 1U Height Drawer. Colour: Black, Language: English 24VDC power input module | R 15,950.00 |



INDUSTRIAL PC



| | DESK MOUNT | | | PANEL MOUNT | | |
|------------------------------|--|--|-----------------------|------------------------|------------------------------|-----------------------|
| Order code | MP6-126U | MP6-156U | MP6-176U | QC-126U | QC-156U | QC-176U |
| Price | R 11,450.00 | R 11,700.00 | R 12,009.00 | R 13,685.00 | R 13,964.00 | R 14,522.00 |
| Operating Software | 4HR-00049 | Microsoft Windows 8 Home Basic— 32Bit | from | from | R 1,670.00 | |
| | FQC-05919 | Microsoft Windows 8 Professional—32Bit | from | from | R 1,990.00 | |
| Display area | TFTLCD 12.1 " | TFTLCD 15.1 " | TFTLCD 17.1" | TFTLCD 12.1 " | TFTLCD 15.1 " | TFTLCD 17.1" |
| Resolution | 800*600 | 1024*768 | 1280*1024 | 800*600 | 1024*768 | 1280*1024 |
| Colour Resolution | 262K | 16.2M | 16.7M | 16.2M | 16.7M | 16.7M |
| Contrast Ratio | 250:1 | 450:1 | 1000:1 | 450:1 | 600:1 | 1000:1 |
| Brightness | 150cd/m2 | 250cd/m2 | 300cd/m2 | 330cd/m2 | 250cd/m2 | 250cd/m2 |
| Touch Screen | Maple Touch Capacitive Screen (5-point-touch at same time under Windows 7/8) | | | | | |
| VGA Port | DB-15 port | Touch screen Controller | | USB/COM (Optional) | | |
| DC Adapter | DC12V 5A | | | | | |
| Standard Collocations | | | | | | |
| Main board | Intel 1037U | | | CPU | Intel Celeron Dual core 1.8G | |
| Memory | 4G | | | HDD | 60G | |
| RS232 Pot | 2 UNITS | | | USB Pot | 7 UNITS | |
| Audio interface | AC97 Audio (1 sound input, 1 sound output) | | | IE1394 | 2 Units | |
| Network Interface | 10/100/1000Mbps high speed Ethernet network (wireless network card optional) | | | | | |
| Output / Input port | 4×RS232 (include 1×RJ45 RS232) 6×USB 2.0 1×VGA 1×LPT 1×PS2(KB/MS) 1× LAN | | | | | |
| Operation Temperature | -10 C° ~ 60 C° | | | Storage Temperature | -30 C° ~ 80 C° | |
| Other | | | | | | |
| Power Supply | 100-240VAC ~ 50-60HZ 1.5A | | | | | |
| Outline Dimensions (mm) | L*W*H (300*246*66) | L*W*H (366*286*65) | L*W*H (403*300*72) | L*W*H (360*280*111) | L*W*H (426*332*88) | L*W*H (450*364*93) |
| Weight NET/GW | 5.3/6.9kg | 6.2/7.6kg | 7.0/9.1kg | 3.15/3.4kg | - | 6.15/6.3kg |



INDUSTRIAL KEYBOARD & MOUSE



| ORDER CODE | DESCRIPTION | PRICE |
|------------|---|-------------------|
| *SK308 | Silicone Keyboard with touchpad and keypad Industrial keyboard with touchpad, rigid and rugged, waterproof and washable, made of silicone. Key layout: 104 keys + 12 function keys, Dimensions: 346(L) x 136(W) x 12(T) mm, Touch pad: 63 x 47 mm, Protection level: IP68, with USB port | R 1,221.00 |
| AS-110 | Rack mount Keyboard Drawer - Standard PS/2 or USB Keyboard connector, Integrated mouse touchpad, Easy installation onto any 19" rack mount, Tray depth 450mm front mount, Lockable | R 950.00 |
| SM502 | Silicone Mouse Water and chemical-resistant, Sealed in silicone, Durable, Weight: 85g, Dimensions: 90 x 55 x 20mm, Cable length: 1.83m, Operating temperature: 0C up to 70C (32F up to 158F), Resistance: IP 67 with USB port | R 488.00 |



| ORDER CODE | DESCRIPTION | PRICE |
|-------------|--|-------------------|
| *MKB-F86-TB | Desk Mount - Stainless steel keyboard with trackball - USB port | R 4,705.00 |
| *MKB-F86-TP | Desk Mount - Stainless steel keyboard with touchpad - USB port | R 4,401.00 |
| *KMY299B | Panel Mount - Stainless steel keyboard with trackball - USB port | R 4,108.00 |
| *KMY299D-T | Panel Mount - Stainless steel keyboard with touchpad - USB port | R 3,754.00 |
| MTB-38-DT-B | Desktop Metal Trackball - USB port | R 2,580.00 |

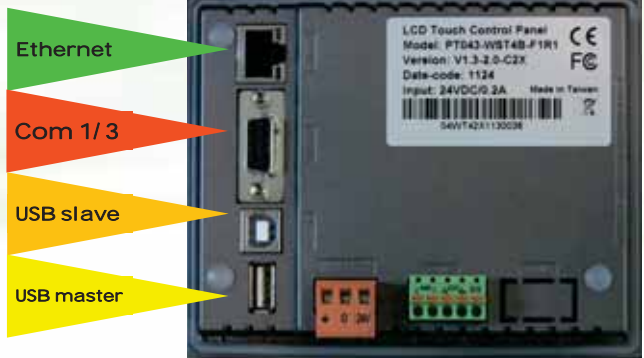
NOTE: * PREFERRED STOCK ITEM



HMI



Compatible with most major PLC brands



| ORDER CODE | PRICE | INCH | COLOUR | RESOLUTION | DIMENSIONS W x H x D mm | PANEL CUT OUT W x H mm | MEMORY (SDRAM) |
|------------|-------------|------|--------|------------|----------------------------|---------------------------|-------------------|
| CPT043 | R 8,670.00 | 4.3" | 65k | 800 x 480 | 130 x 106.2 x 37 mm | 118.5 x 92.5 mm | 32MB |
| CPT070 | R 10,200.00 | 7" | 65k | 800 x 480 | 188 x 143.3 x 40 mm | 175 x 132.5 mm | 64MB |
| CPT100 | R 21,141.00 | 10" | 65k | 1024 x 600 | 269.8 x 212 x 38 mm | 258.5 x 200.8 mm | 64MB |
| CPT150 | R 40,100.00 | 15" | 65k | 1024 x 768 | 399.1 x 297.6 x 62.6 mm | 384.5 x 283 mm | 64MB |

| | | | | |
|-------------------------|-----------------|------------------------------------|-----------------------|--------------------------------|
| Communication Interface | COM1 | RS-232/422/485 (DB9 Female) | CPU | RISC 32bits, 200MHz |
| | COM2 | RS-232/485 (5-Pins Plug Connector) | Operating System | HMI RTOS, PM Designer Software |
| | COM3 | RS232 in COM1 pin 7,8 | Touch screen | 4 wires Analog resistive |
| | Ethernet (RJ45) | 10/100-BaseT | Power Supply Voltage | 24VDC |
| I/O's | USB Client | Yes x1 | Operating Temperature | 0 ~ 50°C |
| | USB Host | Yes x1 | Warranty | 2 Years |
| | Micro-SD Slot | Yes x1 | | |





SOFTWARE



| PART NO. | DESCRIPTION | PRICE |
|---|---|--------------------|
| Unity Pro Small (S) | | |
| UNYSPUSFUCD80 | UNITY PRO S SINGLE LIC | R 10,377.61 |
| Unity Pro Large (L) | | |
| UNYSPULFUCD80 | UNITY PRO L SINGLE LIC | R 47,697.62 |
| Unity Pro Extra Large (XL) | | |
| UNYSPUEFUCD80 | UNITY PRO XL SINGLE LIC | R 64,389.28 |
| Vijeo Designer, Configuration Software | | |
| VJDSNDTGSV62M | Vijeo Designer, Single License | R 9,010.51 |
| VJDSUDTGAV62M | Vijeo Designer, Single License, USB cable | R 10,189.23 |



HMI



XBTZ945



| HMI GTO RANGE - OPTIMUN ADVANCED TOUCH SCREEN PANELS | | |
|---|---|--------------------|
| HMISTO511 | TOUCH PANEL SCREEN 3"4 MONOCHROME G/O/R | R 1,821.58 |
| HMISTO512 | TOUCH PANEL SCREEN 3"4 MONOCHROME W/P/R | R 1,821.58 |
| HMISTU655 | Touch Panel Screen 3"5 Color | R 2,570.74 |
| XBTGT2330 | TERM.5"7 TS GRAPH. C.TFT STD. VERS. | R 19,105.88 |
| XBTGT5330 | TERM.10"4 TS GRAPH. C.TFT STD. VERS. | R 42,289.21 |
| XBTGT7340 | TERM.15" TS GRAPH. C.TFT HIGH END VERS | R 54,405.50 |
| XBTZ945 | CONFIGURATION CABLE | R 901.35 |
| XBTZG935 | CABLE USB FOR DOWNLOAD | R 2,096.18 |
| HMIGTO1310 | 3.5 Color Touch Panel QVGA-TFT | R 6,485.25 |
| HMIGTO2310 | 5.7 Color Touch Panel QVGA-TFT | R 11,144.21 |
| HMIGTO4310 | 7.5 Color Touch Panel VGA-TFT | R 18,640.52 |
| HMIGTO6310 | 12.1 Color Touch Panel SVGA-TFT | R 31,405.74 |



HMI



| PART NO. | DESCRIPTION | PRICE |
|---------------|---|--------------------|
| 2711P-K4C20D | PVP 400 COLOUR KEY RS232/ ENET DC, PANEL VIEW PLUS 4"inch COLOUR KEYPAD DISPLAY | R 9,160.00 |
| 2711P-T6C20D | PV Plus 6"inch COLOUR, TOUCH, ETHERNET, DC PS, Incl. RS232 & USB, 32MB FLASH /64MB RAM | R 19,400.00 |
| 2711P-T7C4D9 | Graphic Terminal, PANEL VIEW Plus 6, 7"inch TOUCH SCREEN, COLOUR, DC, ETHERNET, RS232, Extended Capabilities | R 29,800.00 |
| 2711P-T10C4D9 | Graphic Terminal, PANEL VIEW Plus 6, 10"inch TOUCH SCREEN, COLOUR, DC, ETHERNET, RS232, Extended Capabilities | R 39,000.00 |
| 2711P-T15C4D9 | Graphic Terminal, PANEL VIEW Plus 6, 15"inch TOUCH SCREEN, COLOUR, DC, ETHERNET, RS232, Extended Capabilities | R 57,400.00 |
| 9701-VWSTMENE | FactoryTalk View Studio for Machine Edition | R 9,050.00 |



HMI



| PART NO. | DESCRIPTION | PRICE |
|-----------------------------------|--|--------------------|
| BASIC PANELS | | |
| 6AV2123-2GB03-0AX0 | SIMATIC HMI, KTP700 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 7" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/ STEP7 BASIC V13 | R 11,500.00 |
| 6AV2123-2JB03-0AX0 | SIMATIC HMI, KTP900 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 9" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/ STEP7 BASIC V13 | R 20,100.00 |
| 6AV2123-2MB03-0AX0 | SIMATIC HMI, KTP1200 BASIC, BASIC PANEL, KEY AND TOUCH OPERATION, 12" TFT DISPLAY, 65536 COLORS, PROFINET INTERFACE, CONFIGURATION FROM WINCC BASIC V13/ STEP7 BASIC V13 | R 28,700.00 |
| NEW COMFORT PANELS | | |
| 6AV2124-0GC01-0AX0 | SIMATIC HMI TP700 COMFORT, COMFORT PANEL, TOUCH OPERATION, 7" WIDESCREEN-TFT-DISPLAY, 16 MIL. COLORS, PROFINET INTERFACE, MPI/ PROFIBUS DP INTERFACE, 12 MB USER MEMORY, WINDOWS CE 6.0, CONFIGURABLE FROM WINCC COMFORT V11 | R 19,200.00 |
| 6AV2124-0JC01-0AX0 | SIMATIC HMI TP900 COMFORT, COMFORT PANEL, TOUCH OPERATION, 9" WIDESCREEN-TFT-DISPLAY, 16 MIL. COLORS, PROFINET INTERFACE, MPI/ PROFIBUS DP INTERFACE, 12 MB USER MEMORY, WINDOWS CE 6.0, CONFIGURABLE FROM WINCC COMFORT V11 | R 33,000.00 |
| 6AV2124-0MC01-0AX0 | SIMATIC HMI TP1200 COMFORT, COMFORT PANEL, TOUCH OPERATION, 12" WIDESCREEN-TFT-DISPLAY, 16 MIL. COLORS, PROFINET INTERFACE, MPI/ PROFIBUS DP INTERFACE, 12 MB USER MEMORY, WINDOWS CE 6.0, CONFIGURABLE FROM WINCC COMFORT V11 | R 42,800.00 |
| 6AV2124-0QC02-0AX0 | SIMATIC HMI TP1500 COMFORT, COMFORT PANEL, TOUCH OPERATION, 15" WIDESCREEN-TFT-DISPLAY, 16 MIL. COLORS, PROFINET INTERFACE, MPI/ PROFIBUS DP INTERFACE, 24 MB USER MEMORY, WINDOWS CE 6.0, CONFIGURABLE FROM WINCC COMFORT V11 SP2 | R 54,400.00 |
| HMI CONFIGURATION SOFTWARE | | |
| 6AV2100-0AA03-0AA5 | SIMATIC WINCC BASIC V13 SP1 ENGINEERING SOFTWARE IN TIA PORTAL; FLOATING LICENSE; SOFTWARE AND DOCUMENTATION ON DVD; LICENSE KEY ON USB-STICK; CLASS A; 6 LANGUAGES: GE,EN,IT,FR,SP,CH; EXECUTABLE UNDER WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8.1 (64 BIT), WINSRV 2012 R2 (64 BIT); FOR CONFIGURATION OF SIMATIC BASIC PANELS | R 1,860.00 |
| 6AV2101-0AA03-0AA5 | SIMATIC WINCC COMFORT V13 SP1 ENGINEERING SOFTWARE IN TIA PORTAL; FLOATING LICENSE; SOFTWARE AND DOCUMENTATION ON DVD; LICENSE KEY ON USB-STICK; CLASS A; 6 LANGUAGES: GE,EN,IT,FR,SP,CH; EXECUTABLE UNDER WINDOWS 7 (32 BIT, 64 BIT), WINDOWS 8.1 (64 BIT), WINSRV 2008/2012 R2 (64 BIT); FOR CONFIGURATION OF SIMATIC PANELS | R 13,300.00 |
| 6AV6612-0AA51-3CA5 | WINCC FLEXIBLE 2008 STANDARD ENGINEERING-SW, FLOATING LICENSE KEY ON USB STICK, SW | R 21,100.00 |





UPS



| APC | | | | | |
|-----------------------|--------------|-------------|--------|--------------|--|
| | ORDER CODE | SURT1000XLI | | SURTD3000XLI | |
| | PRICE | R 8,913.44 | | R 23,052.00 | |
| | BATTERY PACK | SURT48XLBP | | SURT192XLBP | |
| | PRICE | R 5,590.11 | | R 9,912.36 | |
| LOAD (WATT) | 700 | 500 | 700 | 500 | |
| RUNTIME (MIN) | 14min | 21min | 54min | 76min | |
| + BATTERY (TOTAL MIN) | 69min | 98min | 187min | 263min | |

TESCOM LONG RUN RANGE

Range of line interactive UPS, Compact size, Auto restart with off-mode charging, Cold start option, Generator compatible

| | ORDER CODE | DESCRIPTION | PRICE |
|--|---------------|---|--------------------|
| | APEX+1000-100 | Tescom Apex 1000VA Line Interactive, 1 x 12v 100ah External, 3hours | R 5,770.00 |
| | APEX+2000-200 | Tescom Apex 2000VA Line Interactive, 2 x 12v 100ah External, 2hours | R 8,550.00 |
| | APEX+2000-400 | Tescom Apex 2000VA Line Interactive, 4 x 12v 100ah External, 4hours | R 13,305.00 |

TESCOM OPTIMA On Line Rack Mount Standard Run Time

Microprocessor-based parallel online design with a pure sine wave output, Rack tower design with multiple communication

| | ORDER CODE | DESCRIPTION | PRICE |
|--|------------|--|-------------------|
| | OTIMA-1100 | 1000VA, 2 x 12v 9ah Internal, 10 to 15 Minutes | R 4,710.00 |
| | OTIMA-2000 | 2000VA, 4 x 12v 7ah Internal, 10 to 15 Minutes | R 7,015.00 |
| | OTIMA-3000 | 3000VA, 6 x 12v 9ah Internal, 10 to 15 Minutes | R 8,235.00 |

TESCOM SSPRO On Line Long Back Up Time

Pure sine wave output, Microprocessor-based parallel online topology, Adjustable voltage sensitivity, Generator compatible. Network manageable

| | ORDER CODE | DESCRIPTION | PRICE |
|--|---------------|------------------------------------|--------------------|
| | SSPRO1100L M2 | 1100VA, 2 x 12v 26ah, 60 Minutes | R 7,730.00 |
| | SSPRO2200L M2 | 2200VA, 2 x 12v 26ah, 30 Minutes | R 9,215.00 |
| | SSPRO3000L -1 | 3000VA, 3 x 12v 100ah, 120 Minutes | R 14,775.00 |



VARIABLE SPEED DRIVES

WIDE RANGE AVAILABLE:
SCHNEIDER, ROCKWELL
SIEMENS
CONTROL TECHNIQUES

600V & 690V
3PHASE
Available on
Request



TYPICAL PRICING ON VSD's
 ALL BELOW VSD's ARE
 400V, 3 PHASE

| | |
|---------|--------------|
| 0.75 kW | R 7,800.00 |
| 2.2 kW | R 9,200.00 |
| 4 kW | R 10,600.00 |
| 7.5 kW | R 14,900.00 |
| 15 kW | R 21,800.00 |
| 22 kW | R 34,100.00 |
| 37 kW | R 64,300.00 |
| 55 kW | R 84,000.00 |
| 75 kW | R 100,000.00 |
| 90 kW | R 110,000.00 |
| 110 kW | R 126,600.00 |
| 132 kW | R 170,000.00 |

Schneider
 Electric

YASKAWA

Rockwell
Automation

SIEMENS

CONTROL
TECHNIQUES

- OPTIONAL EXTRA'S**
- **Communication Modules**
 - **Encoder Modules**
 - **Line & Motor Chokes**



SOFT STARTERS / TRANSFORMERS / DRIVES

SOFT STARTER SOLUTIONS MCC STYLE 3.3kV, 6.6kV, 11kV

Applications: Pumps, Fans, Compressors, Variable torque loads

Features: Integrated bypass contactor, bypass mode, power consumption meter (kWh), remote control via Modbus communication, fault annunciation, stall protection, current limit 450%, can be containerized

TYPICAL PRICING

| | kW motor | 6.6kV |
|------|----------|----------------|
| 80A | 750 | R 157,500.00 |
| 120A | 1100 | R 233,450.00 |
| 200A | 1800 | R 396,000.00 |
| 250A | 2300 | R 494,000.00 |
| 330A | 3000 | R 652,000.00 |
| 420A | 4000 | R 832,000.00 |
| 550A | 5200 | R 1,090,000.00 |
| 630A | 6000 | R 1,248,000.00 |



SOFT STARTER



TRANSFORMER

RESIN CAST TRANSFORMERS up to 20,000 kVA

Specifications:

Rated Powers up to 20,000 kVA
Rated Frequency 50 Hz or 60 Hz
Rated Primary Voltage up to 36 kV
Rated Secondary Voltage up to 24 kV
Conductor Material AL or CU
Insulation indoor use IP23
Cooling system "AN" (Air Natural)
Vector groups Delta or Star
Screen windings - Insulation class F-F
Ambient 40 Deg C
Altitude 1000m
Temperature rise 100 Deg C
Three phase Temperature controller
Enclosures optional
Fan cooling optional

Features:

Zero Oil
Compact & Light
No fire Hazard
Safe, Non Toxic

TYPICAL PRICING

| | |
|-----------|----------------|
| 500kVA | R 276,000.00 |
| 1000kVA | R 362,000.00 |
| 5000kVA | R 1,092,000.00 |
| 10,000kVA | R 2,081,000.00 |

DRIVES



GEFRAN[®] AC VARIABLE SPEED DRIVES

Ratings from 1.0 KW up to 1500 kW
Voltages from 220 up to 690V
Non regenerative or Full regenerative
Active front end - Clean Energy return
Open IP 23 or in Cabinets IP44
Input or Output chokes available
Communication cards available
Encoder feed back cards available
Braking Choppers available
Braking Resistors available
I/O Expansion cards available

TYPICAL PRICING ON AC DRIVES 690 Volt

| | |
|------------|----------------|
| 30 kW | R 36,000.00 |
| To 1800 kW | R 1,380,000.00 |



GEFRAN[®] DC VARIABLE SPEED DRIVES

Ratings from 20A up to 8800A DC
Voltages from 220V up to 1000V DC
2 Quadrant or 4 Quadrant operation
6 pulse or 12 Pulse operation
Parallel or Series operation
Open IP 23 or in Cabinets IP44
Input chokes available
Communication cards available
Encoder feed back cards available
I/O Expansion cards available

TYPICAL PRICING ON DC DRIVES 700 Volt

| | |
|----------|----------------|
| 25A | R 30,475.00 |
| To 4400A | R 1,265,000.00 |



MEDIUM VOLTAGE DRIVE SYSTEMS

Voltages 3.3kV - 6.6kV - 11.0 kV
This General Purpose MV AC Variable Speed Drive system rated for up to 10 MW of power on voltages up to 11 kV.
The drive is suitable for use with existing or new ac motors. The flux vector control system provides stable and accurate torque and speed control with large energy saving potential. Ideal for use with Pumps - Fans - Compressors -




ELECTRIC MOTORS

| 1. |  | SPECS | | | DESCRIPTION | TYPICAL PRICING | |
|---|---|--------------|---------------------------|----------------------------|--|---|---|
| | | MODEL | TYPE & POWER RANGE | FRAME & VOLTAGE | | | |
| 2. |  | 1. LVSQIM | ACSQIM 355 - 1600 kW | 355 - 630 380V - 690V | Squirrel cage induction motor Constant kW Variable Torque motor Enclosure IP 54 - IP 55 Cooling Natural Speeds 2P - 12P | AC MOTORS TYPE YJP 380V-690V 55 kW 6 pole YJP 180 R 86,000.00 to 2000kW 6 POLE YJP 800 R 1,782,000.00 | |
| 3. |  | 2. MVSQIM | ACSQIM 220 - 12000 kW | 355 - 1100 3.3KV - 11KV | Squirrel cage induction motor Constant kW Variable Torque motor Enclosure IP 23 - IP 44 - IP 54 Cooling IP IC01 - IC81 Speeds 2P - 24P Insulation class F, Optional H | | |
| 4. |  | 3. LVWR | ACWRIM 4.0kW -800 kW | 132 - 450 380V - 690V | Wound Rotor induction motor Enclosure IP 44 - IP 55 Speeds 4P - 10P Insulation class F, Optional H | | |
| |  | 4. HVWR | ACWRIM 220kW - 2500kW | 355 - 1000 3.3KV - 11KV | Wound Rotor induction motor Enclosure IP0 - IP44 Cooling IP IC01 - IC81 Speeds 4P - 10P Insulation class F, Optional H | | |
| 5. |  | 5. YJP | ACSQIM 15 kW - 1500 kW | 80 - 800 380V - 690V | Constant Torque Variable / Slow speed applications Selected on basis of Torque Enclosure IP0 - IP 23 - IP44 Cooling IP IC01 - IC 06 - IC81 Speeds 4P - 10P Insulation class F, Optional H | | |
| OPTIONS: | | | | | | | |
| Encoders AC Chokes Tachogenerators DC Choke Heaters Braking Resistors Temp monitors Braking Choppers | | | | | | | |
| 6. |  | 6. | 15 - 400 kW | 80 - 400 400v -600V | Compact DC Motors Enclosure IP0 - IP 23 - IP44 Cooling IP IC01 -IC 06 - IC81 Speeds 400- 1500 Insulation class F, Optional H | | DC Motor type Z Voltages 400V - 1000V 55 kW Frame Z225 1000 RPM R 98,000.00 to 2000 kW Frame Z800 1000RPM R 1,610,000.00 |
| 7. |  | 7. | 355 kW - 2500 kW | 355 - 1000 400-1000V | Larger DC Motors Enclosure IP0 - IP 23 - IP44 Cooling IP IC01 -IC 06 - IC81 Speeds 300-2000 Insulation class F, Optional H | | |
| 8. |  | 8. | 355kW - 5000kW | 3.3kv - 11kv | Large Motors Enclosure IP0 - IP 23 - IP44 Cooling IP IC01 -IC 06 - IC81 Speeds 6P - 14P Insulation class F, Optional H Power Factor 1.0 - leading PF Energy saving solution | | |



POWER QUALITY METERS



|  | PART NO. | DESCRIPTION | PRICE |
|---|--|--|--------------------|
|  | BILLING METERS | | |
| | E+MA-454000 | E+MA-454000 EMAX PLUS, 4 WIRE, 400VAC | R 4,725.00 |
| | ACCESSORIES | | |
| | E+EA-GPRS04 | MODEM-GSM/GPRS & RS485 | R 3,350.00 |
| | ANTENNA5DBGAIN | ANTENNA 5DB GAIN MAGNETIC BASE | R 1.00 |
| | E+EA-RS2324 | ENEMAX+ RS232/RS485 EXP. MOD. | R 1,362.50 |
| | 1001170 | PROGRAMMING PER METER | R 166.67 |
| ENERGY METERS | | | |
|  | BASIC METERING | | |
| | A9MEM3255 | iEM3255 ENERGY/POWER METER W COMMS, MULTI-TARRIF (4) | R 2,974.42 |
| | A9MEM3155 | iEM3155 DIRECT 63A ENERGY/POWER METER W COMMS | R 3,092.47 |
| | BASIC POWER METERS | | |
| | METSEPM3255 | PM3255 POWER METER W COMMS, 500KB LOG | R 3,438.55 |
| | METSEPM5560 | PM5560 POWER METER W RS485 & ETH COMMS, 8 TARIFFS | R 10,239.60 |
| | METSEPM5320 | PM5320 POWER METER W ETH COMMS, 4 TARIFFS | R 5,816.91 |
| INTERMEDIATE METERING | | | |
| PM850MG | PM850 P/METER W HARM.ALARM 800KB, WAVEFORM CAPTURE | R 21,780.29 | |
| PM870MG | PM870MG POWER METER | R 26,737.52 | |

IT'S AS SIMPLE AS

1, 2, 3



TRAINING

SIEMENS

WE OFFER THE FOLLOWING:

PLC Introduction (1 Day) -
R2,750.00 excl vat.

Maintenance Course (2 Days) -
R5,500.00 excl vat.

Development Course (3 Days) -
R8,250.00 excl vat.

SCADA - (5 Days) Client Specific -
R13,750.00 excl vat.

FIBRE Training -
Practical (1 Day)
R2,750.00 excl vat.

Practical & Theory (2 Days)
R5,500.00 excl vat.

Schneider
Electric

Citect

Wonderware

Rockwell
Automation



Allen-Bradley



AGE TRAINING CENTRE -
ADDRESS: 50 CHARL CILLIERS AVE, ALBERTON NORTH
TRAINING TIMES: 08H30 - 16H00
TRAINING MANAGER - GEORGE MULLER

Company Information On Site Maintenance Callout and Service Level Agreements



AGE Technologies provides professional System Integration of Automation and Electrical Engineering projects for Industry. We provide our customers with cost effective solutions by incorporating leading edge products. From concept to design, through to final commissioning and maintenance - AGE is there.



As a technology based company driven by a pioneering spirit which is strengthened by the ability to be independent and innovative, AGE has a legacy of delivering customer specific solutions throughout Sub Saharan Africa and Arabia.



Mission

To provide Power, Energy and Control system solutions and products to meet our customer requirements and objectives by operating the company on a sound financial basis of profitable growth, increasing value for our shareholders, and creating career opportunities and financial rewards for our employees.



Vision

AGE aims to become the preferred supplier/partner for total solutions to our customers with a focus on Value, Quality and Functionality. We will continue supporting strong partnerships with the industry's key suppliers to integrate the most efficient solutions to meet our customer's needs. Our vision is to operate a safe and environmentally friendly company that can provide excellence in expertise, service and solutions throughout Africa. AGE provides training, support and maintenance thus ensuring engineering expertise throughout Africa.



Working to create efficient solutions

AGE is a company with a wealth of expertise and local support strengthened by the ability to be independent and innovative. We are also authorized suppliers for a number of major industrial automation product manufacturers and therefore are able to integrate the most efficient solutions to meet our client's specifications. This flexibility means we are able to take advantage of innovative technologies and incorporate them into our engineered solutions.



AGE Technologies are authorized system integrators of the complete range of Automation equipment, Electrical Control switchgear and Drives of the following suppliers:



Services Offered:

- On Site maintenance support
- On Site plant/process optimization
- 24/7 Telephonic Support – 083 288 3365
- Scheduled Control System Software Recovery Backups
- Hardware Supply and Repairs
- Control Systems
- Turnkey Projects
- Renewable Energy
- Instrumentation



Contact Details

www.age.co.za



AGE TECHNOLOGIES JHB (PTY) LIMITED
50 Charl Cilliers Ave, Alberton North, Gauteng, South Africa
PO Box 136 873, Alberton North, 1456

Tel: (+27) 11 869 3925/6/7
Fax: (+27) 11 869 6427

**24/7 Telephonic
Support Number:
083 288 3365**

Sales Email:
sales@age.co.za

Representation

-  Head Office
-  Representatives
-  Projects completed outside of RSA

