



HLWQ Gas Turbine Flow meter

HLWQ series gas turbine flow meter is widely used for measurement of natural gas, coal gas, liquefied gas and light hydrocarbon gas, etc.

Features

- Dedicated instrument for gas measurement
- High accuracy: $\pm 1.5\%$, $\pm 1.0\%$ or $\pm 0.75\%$
- Test temperature, pressure and flow of measured gas; automatic tracking and compensation of flow; indication of gas total volume; real-time indication of temperature, pressure, time and date, etc.
- Built-in pressure & temperature sensor, high safety performance & compact.
- Low power consumption, more than 3 year service life (3V 10AH lithium cell)
- Total flow value kept for 10 years after power off

Technical Parameters

Basic Parameters

DN (mm) &	Connection 25, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300 flange connection 25, 40 thread connection
Accuracy	$\pm 1.5\%$, $\pm 1.0\%$ or $\pm 0.75\%$
Turndown	1:10; 1:20; 1:30
Instrument Material	Body: 304 SS; impeller: anti-corrosive ABS or high-quality aluminum alloy; indicator: cast aluminum
Medium Temperature (°C)	-30 °C ~ +80 °C
Ambient Conditions Temperature:	-20°C~+60°C, relative humidity 5%~90%, atmospheric pressure 86~106 KPa
Output Signal	Sensor: pulse frequency signal, low level less than 0.8V, high level more than 8V Transmitter: two wire 4-20mA DC current signal
Power Supply	Sensor: +12V DC, +24V DC (optional) Transmitter: +24V DC Local indication type: built-in 3V lithium cell
Signal Transmission Line	STVPV3x0.3 (3 wire), 2x0.3 (2 wire) Transmission Distance No more than 1000 m Signal Line Interface M20x1.5 (F)
Explosion Proof	ExdIIBT6
Enclosure Protection	IP65

Measuring Range & Working Pressure

DN (mm) Model	Model	Standard Span (m ³ /h)		Extended Span (m ³ /h)		Pressure (MPa)	Mounting
DN25	HLWQ-25			W3	0.5-4	4.0	Flange (thread)
				W4	0.7-7	4.0	
				W5	1.5-15	4.0	
		S1	3-30	W1	1.5-30	4.0	
		S2	4-40	W2	2-40	4.0	
DN40	HLWQ-40	S1	5-50	W1	2.5-50	4.0	Flange (thread)
		S2	8-80	W2	4-80	4.0	
DN50	HLWQ-50	S1	10-100	W1	5-100	4.0	Flange
		S2	15-150	W2	8-150	4.0	Flange
DN65	HLWQ-65	S	15-200	W	10-200	1.6	Flange
DN80	HLWQ-80			W1	10-300	1.6	Flange
				W2	15-350	1.6	Flange
DN100	HLWQ-100			W1	15-400	1.6	Flange
				W2	20-500	1.6	Flange



DN125	HLWQ-125	S	20-800	W1	18-800	1.6	Flange
				W2	20-900	1.6	Flange
DN150	HLWQ-150	S	50-1000	W1	25-1000	1.6	Flange
				W2	50-1200	1.6	Flange
DN200	HLWQ-200	S	150-2000	W	80-2500	1.6	Flange
DN250	HLWQ-250	S	200-3000	W	150-3500	1.6	Flange
DN300	HLWQ-300	S	250-4000	W	200-4000	1.6	Flange

Note in table 2. "extended span" only for "smart integral gas turbine flow meter" or "smart integral gas flow meter with temperature & pressure compensation (HLWQ-B/C/D)

IV Instrument Classification

1. According to function, HLWQ gas turbine flow meter can be divided into 3 types:

- ※ Gas turbine flow sensor / transmitter
- ※ Smart integral gas turbine flow meter
- ※ Smart integral gas turbine flow meter with temperature & pressure compensation

Gas Turbine Flow Sensor / Transmitter

This type of turbine flow meter has no local indication, only output flow signal; This type turbine flow meter is explosion proof.



HLWQ-N: Signal Output 3 wire, pulse; high level more than 8V, low level less than 0.8V Power: 12 or 24V DC

HLWQ-A : 4-20 mA Power Supply 24V DC

Explosion Proof: ExdIIBT6

★ Smart Integral Gas Turbine Flow meter

Integral smart meter; two-line LCD display



to type & HLWQ-C type.
HLWQ-B HLWQ-C
Indication: Flow rate & Total flow
Explosion Proof ExdIIBT6

HLWQ-B : No Signal Output no 4-20 mA, pulse, Power Supply 3V lithium cell.
HLWQ-C : Signal Output no 4-20 mA, pulse . Power Supply 24V DC external

Smart Integral Turbine Flow meter with T&P Compensation

HLWQ-D type gas turbine flowmeter has built-in temperature & pressure sensor and smart totalizer



Indication: Flow rate, daily accumulative flow, total accumulative flow, temperature, pressure and battery capacity
Signal Output: 4-20mA, pulse, IP card signal, RS485 protocol
Power Supply: Built-in lithium cell & external 24VDC
Explosion Proof: ExdIIBT6

Model Selection

Model should be selected according to nominal pressure, medium max pressure, medium temperature, medium components, flow range and signal output.
Working flow range should be (20% to 80%) Qmax.



AGE Technologies

Standard signal output: pulse signal (ws) output 3 wire, standard flow signal (IC card) output or RS485 communication output; please specify when ordering.