

YSLWQ Gas Turbine Flowmeter

Features

- With low starting flow, low pressure loss, good anti-vibration and anti-pulsating flow performance, high corrosion resistance and reliability, and long service life.
- It adopts a new type of microprocessor and high-performance integrated chip, with high arithmetic accuracy and superior performance.
- Advanced micro-power high-tech is used, with low power consumption. It can be operated with internal battery for long-term power supply, and also with external power supply.
- According to the flow frequency signal, the meter coefficient can be automatically performed linear correction in terms of up to eight segments, which can improve the calculation accuracy of the instrument according to user needs.
- EEPROM data storage technology is applied, with historical data storage and query functions, three historical data recording methods are available.
- The meter head of the flow meter can be rotated by 180°, and it's easy to install and use.
- High accuracy, up to $\pm 1.5\%R$, $\pm 1.0\%R$.
- The repeatability is good, and the short-term repeatability can reach $0.05\%R \sim 0.2\%R$ which enables it as the preferred choice in trade settlement.
- It can detect the temperature, pressure and flow of the gas to be measured, and can automatically track and compensate the flow, and display the standard state ($P_n=101.325\text{KPa}$, $T_n=293.15\text{K}$) of the gas flow; temperature, pressure, time, date and other data can be inquired in real time.



Specifications

Diameter (mm) And connection	Flange connection: 25、40、50、65、80、100、125、150、200、250、300(mm) Threaded connection: 25、40、50(mm)
Accuracy	$\pm 1.5\%R$ ($\pm 1\%R$ By customized)
Range ratio	1:10; 1:20; 1:30
Material	Body: 304 stainless steel or cast aluminum Impeller: anti-corrosion ABS or high quality aluminum alloy Converter: Cast aluminum
Conditions of use	Medium temp. $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$ Ambient temp. $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$ RH: 5%~90% Atmospheric pressure: 86kPa~106 kPa
Power supply	A. External power supply: $+24\text{VDC} \pm 15\%$, ripple $\leq \pm 5\%$, suitable for 4-20mA output, pulse output, RS485, etc B. Internal power supply: 1 set of 3.0V 10AH lithium battery, battery voltage 2.0V~3.0V can work normally. An undervoltage indication occurs when the voltage is below 2.0.
Overall power	A. External power supply: $\leq 1\text{W}$ B. Internal power supply: average power consumption $\leq 1\text{W}$, can be used for more than three years.

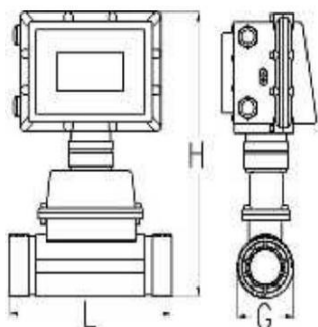
Signal Output	Pulse signal, 4-20mA current signal, control signal
Communication output	RS485
Real-time recording	Start-stop record, daily record, fixed time interval record
Signal interface	Female thread M20×1.5 or other
Ex Class	ExdII BT6 or Exiall CT4
IP rating	IP65

■ Range and pressure

DN (mm)	Standard range (m³/h)		Extended range (m³/h)		Normal pressure (MPa)	Special high pressure (MPa)	Installation mode
	S	W	W	W			
25	S	2.5-25	W	4-40	1.6	2.5,4.0	Flange (thread)
40	S	5-50	W	6-60	1.6	2.5,4.0	Flange (thread)
50	S1	6-65	W1	5-70	1.6	2.5,4.0	Flange
	S2	10-100	W2	8-100			
65	S	15-200	W	10-200	1.6	2.5,4.0	Flange
80	S1	13-250	W	10-160	1.6	2.5,4.0	Flange
	S2	20-400					
100	S1	20-400	W	13-250	1.6	2.5	Flange
	S2	32-650					
125	S	25-700	W	20-800	1.6	2.5	Flange
150	S1	32-650	W	80-1600	1.6	2.5	Flange
	S2	50-1000					
200	S1	80-1600	W	50-1000	1.6		Flange
	S2	130-2500					
250	S1	130-2500	W	80-1600	1.6		Flange
	S2	200-4000					
300	S	200-4000	W1	130-2500	1.6		Flange
			W2	320-6500			

Mounting Size

■ Threaded connection size

	DN(mm)	L(mm)	H(mm)	Male thread G
	25	200	310	G2½
	40	200	310	G2½
	50	200	325	G2½

Flange connection size

								(mm)	
		DN	L	D	K	H	d	n	Standard configuration
		25	200	115	85	330	14	4	1.6MPa
40	200	150	110	355	18	4			
50	200	165	125	370	18	4			
65	200	185	145	390	18	4			
80	240	200	160	400	18	8			
100	300	220	180	425	18	8			
125	350	250	210	455	18	8			
150	450	285	240	485	22	8			
200	400	340	295	545	22	12			
250	400	405	355	605	26	12			
300	450	460	410	670	26	12			

Model Code Selection Table

		YSLWQ	XXX	X	X	X	X	X	X	X
Nominal diameter (mm)	2-3 digits 15~300									
Nominal pressure	0.6MPa			P1						
	1.0MPa			P2						
	1.6MPa			P3						
	2.5MPa			P4						
	4.0MPa			P5						
	Others			P6						
Connection mode	Flange type				1					
	Thread type				2					
Output	24V power supply, output three-wire pulse signal					N				
	DC24V power supply, on-site output two-wire 4~20mA					A				
	Lithium battery power supply, no signal output is displayed on site					B				
	DC24V power supply, on-site display and output two-wire 4~20mA					C				
	DC24V power supply, on-site display and RS485					C1				
	DC24V power supply, on-site display and HART					C2				
Accuracy	1.0						10			
	1.5						15			
Material	Cast aluminium								C	
	304 Stainless steel								S	
Explosion	Non-explosion proof									A
	ExdBT6									B
Movement material	Anti-corrosion ABS									N
	Aluminium alloy									H