

MAIN FEATURES

- Easy installation, no maintenance is needed.
- \bullet High accuracy within $\pm 0.5\%$
- Multiple signal output of 4-20mA, OCT pulse and Relay output.
- Coming with RS485 interface, support MODBUS, can be easily accessible to industrial systems.
- Can be applicable to inflammable and explosive occasions.
- Achieve heat measurement by connecting 3-wired heat transducers PT100.

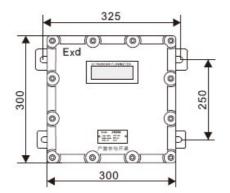


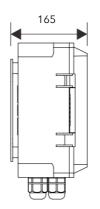
SPECIFICATION

Principle	Transit-time			
Precision	Flowmeter:±0.5%; Heat meter:±2%			
Display	Can connect 2×10 backlit Chinese characters or 2×20 character LCD, support Chinese, English, Italian three languages			
Signal output	1 4 ~ 20mA current output, impedance 0-1K, accuracy 0.1% 1 OCT pulse output (pulse width 6-1000ms, default 200ms) 1 relay output			
Signal input	3 channels 4 ~ 20mA current input, accuracy 0.1%, can collect temperature, pressure, liquid level etc. Can be connected to a three-wire PT100 platinum resistor for heat measurement.			
Data interface	Isolated RS485 serial interface, the flowmeter can be upgraded through a PC, supporting protocols such as MODBUS			
Pipe material	Steel, stainless steel, cast iron, cement pipes, copper, PVC, aluminum, fiberglass and other dense pipes are allowed to be lined			
Inner diameter of tube	15-1000mm			
Straight pipe section	Sensor installation point 0 is good: 10D upstream, 5D downstream, 30D from the pump outlet (D refers to the pipe diameter)			
Medium	Single, uniform liquid that can transmit ultrasonic waves, such as water(-30 $^{\circ}$ C \sim 160 $^{\circ}$ C)			
Temperature	Standard probe: -30 \sim 90 °C, high temperature probe: -30 \sim 160 °C			
Turbidity	10000 ppm with low bubble content			
Velocity	-12m/s ~12m / s			
Temperature	Host: -20 \sim 60 °C, flow sensor: -30 °C \sim 160 °C			
Special cable	Shielded twisted-pair cable			
Protection class	Main unit: IP65; sensor: IP68;			
Explosion proof	DIIBT5			
Power supply	DC24V, AC85~264V;50Hz			
Power consumption	1.5W			



DIMENSION





Unit: mm

SENSOR OPTIONS

Flow sensor	Picture	Model	Measuring range	Temperature	
Clamp on		TS-2 (small)	DN25-100	-30 ∼ 90°C	
		TM-1 (medium)	DN50-700		
		TL-1 (large)	DN300-6000		
High temp. Clamp on		TS-2-HT (small)	DN25-100	-30 ~ 160°C	
		TM-1-HT (medium)	DN50-700		
		TL-1-HT (large)	DN300-6000		
Insertion		TC-1 (standard)	DN50-6000	-30 ~ 160°C -30 ~160°C	
		TC-2 (extended)	DIN30-8000		
Inline		TP-1 (parallel)	DN80-6000		
		Standard	DN15-1000	-30 ~ 100 C	

OPTIONAL PT100 SENSORS FOR HEAT MEASUREMENT

Temperature sensor	Picture	Model	Measuring range	Temperature	Cut off water
Clamp on	8 9	CT-1	DN50-6000	-40 ~ 160°C	No need
Insertion		TCT-1	DN50-6000	-40 ~ 160°C	Need
Insertion under pressure		PCT-1	DN50-6000	-40 ∼ 160°C	No need
Insertion small sizes		SCT-1	< DN50	-40 ~ 160°C	Need



ORDER CODE

FMU822	Explosion Proof Inline Ultrasonic Flowmeter						
	CODE	Sensor type					
	Α	Standard clamp on sensor					
	В	High tem	perature c	lamp on se	ensor		
	С	Mounting	bracket se	ensor			
	D	High tem	perature m	nounting b	racket sensc	or	
	E	Insertion	Insertion type				
		CODE	Nominal diameter				
		D15	DN15mr	n			
		D20	DN20mr	n			
		•••					
		D6000	DN6000	DN6000			
			CODE	CODE Voltage			
			D	D DC8~36V (DC 24V)			
			Α	A AC85~264V			
				CODE Working temperature 1 -30 °C -90 °C 2 -30 °C -160 °C			
				3 Other customized			
					CODE	Signal out	put
					\$1 1 channel 4-20mA current output \$2 1 way OCT pulse output \$3 1 relay output \$4 RS485		
					C Other customization		tomization
						CODE	Other parameters
						Α	Flange range_
						В	Normal pressure_Kpa
						С	Protection level_
						D	Explosion type_
						E	Signal input_
						F	Other requirements
FMU822	А	D15	D	1	S1	ВС	Order example