FUM06
Ultrasonic Flowmeter

| Features |

- With ultrasonic technology, it can accurately measure the flow rate of 0.1 m/s.
- Wide measurement range (DN50 ~ DN300), easy installation
- 2″ LCD color screen displays flow rate and flow, easy to set with buttons
- Installed on the measuring pipe, the two are connected with a special cable and can be used with a temperature meter for measurement

| Applications |

Process / Energy-saving monitoring in industries such as petrochemicals / Water conservancy / Metallurgy / Chemistry / Machinery energy saving

| Specification |

Input

Sensor type	Ultrasonic time difference
Turndown ratio	100 : 1
Measuring range	0.1 ... 10 m/s
Transducers	TM-1, cable 10 m

Output

Output signal	4 ... 20 mA / 0 ... 10 V / RS-485
Temp. measurement	Can connect Pt1000 thermometer (RS-485 reading)
Load resistance	Current output ：≦500 Ω
	Voltage output : ≧10 KΩ

Accuracy

Accuracy	±1% F.S.

Display

Display readout	-99.99 ... +99.55 (Flow rate)
	0 ... 9999999(Flow)
Decimal point	Button
Sampling time	1 cycle/sec
Unit	m/s、ft/s、L/min、CMM、CFM、CFH
Response time	1 sec

Environmental

Operating Temp. & Humid.	0 ... 50°C / 20 ... 85%RH (Non-condensing)
Storage Temp.	-25 ... 60°C
Transducers Temp.	-30 ... 90°C
Medium	Water, Sea water, Alcohol, Acetone, Methanol,
	Ethanol, Acetaldehyde, Peanut oil, Glycerin,
	Benzene, Toluene, Ethylbenzene, Petroleum, Pine oil,
	Ketone, Ethylene glycol

Communication

Communication methods & protocol	RS-485 Modbus RTU
RS-485 baud rate	9600、19200、38400、57600、115200 bps

Electrical

Power supply	DC 24 V ±10%
Current consumption	24 V : 110 mA
Electrical connection	M12 5P connector

Pipe installation condition

Pipe material	Steel, Stainless steel, Cast iron, Copper, PVC, Aluminum,
	Fiberglass
Straight pipe	Transmitter installation should be satisfied : upstream
	10 D, downstream 5D, 30D from the pump
Installation	Clamp type
Pipe diameter	DN50 ... DN300

Certification

Certification	CE

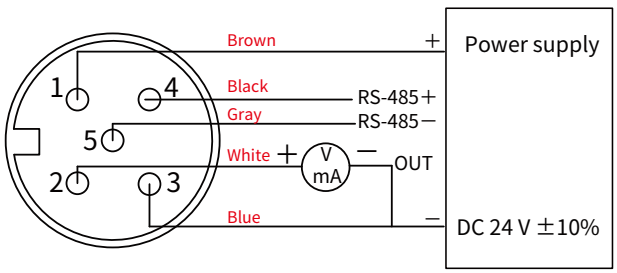
Protection

IP rating	IP65 (Housing)
Electrical protection	■ Reverse polarity ■ Over-voltage

Material

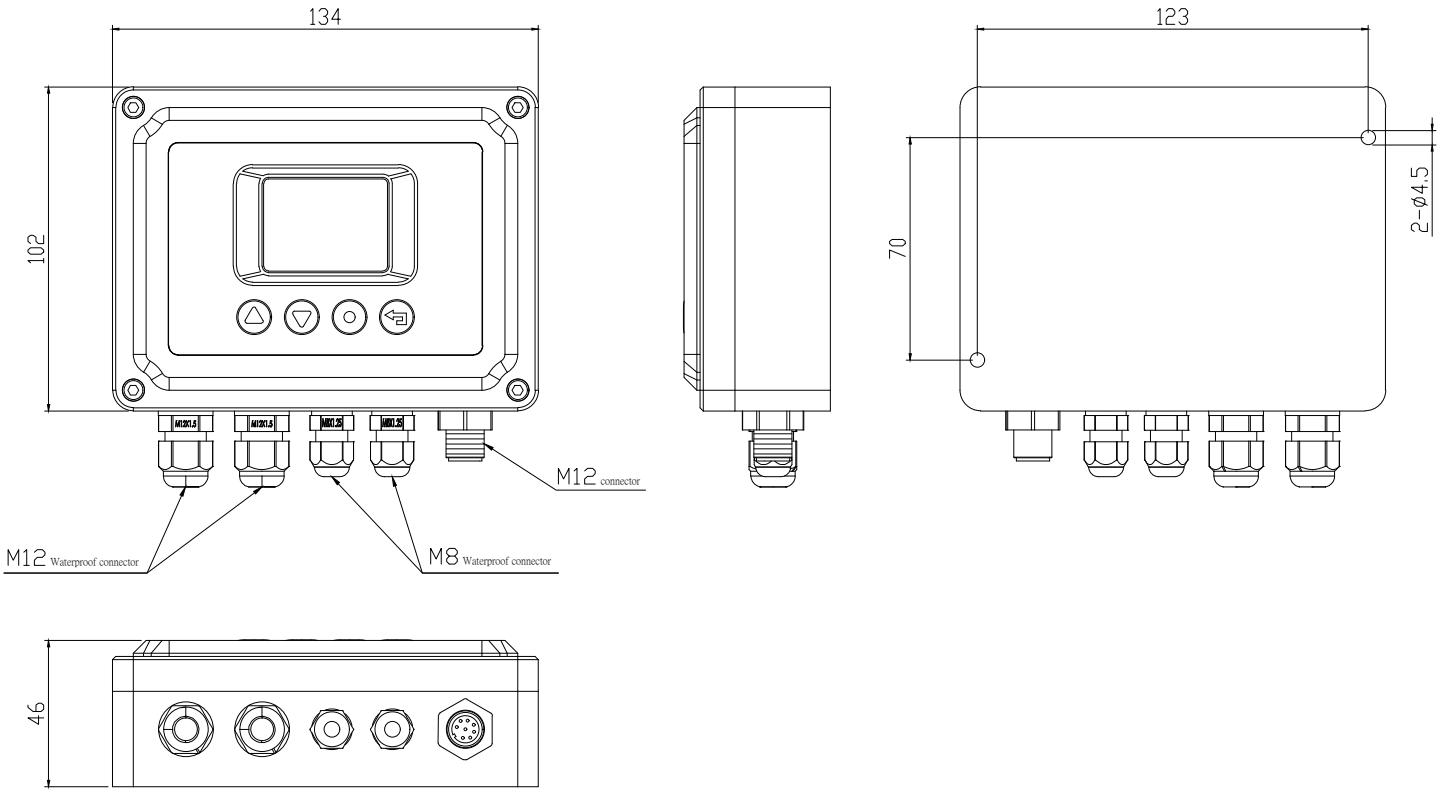
Housing	Aluminum alloy
Probe	PC

| Diagram |



*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

| Dimension | Unit : mm



| Clamp on type tranceducer |

Picture	Measurement range	Temperature	Dimension
	DN50 ... 300	-30 ... +90°C	64x39x44 mm

| Temperature transducer |

Picture	Measurement range	Temperature	Installation requirements	Accuracy
	< DN50	-40 ... +160°C	No need to interrupt flow	100°C ±0.8°C Tempe. difference ≤ 0.1°C after precise matching

| Ordering Guide |

FUM06 — [Flow transducer: TM1] — [Diameter: DM300] [Cable Diameter lengh*: 10] — [Temperature transducer: N] — [Other: N]

- Flow transducer: TM1 : TM-I
- Diameter: DM300 : DN300
- Cable Diameter lengh*: 10 : 10 m
- Temperature transducer: N : None; PT.3m : Pt100 patch type surface thermometer
- Other: N : None; W : Customized

* Cable length is from the sensing element to the host.