

## FB500-UM06 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 : $\leq 500 \Omega$ Voltage output : $\geq 10 K\Omega$

### Accuracy

Accuracy	$\pm 1\%$ F.S.
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### 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 $\pm 10\%$
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
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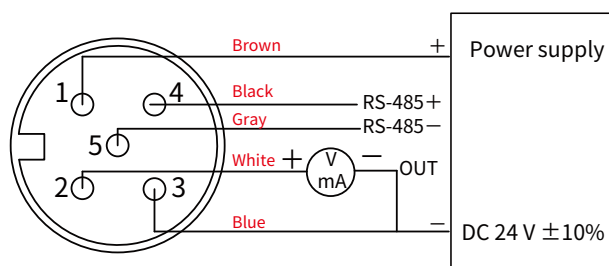
### Protection

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

### Material

Housing	Aluminum alloy
Probe	PC

## | Diagram |

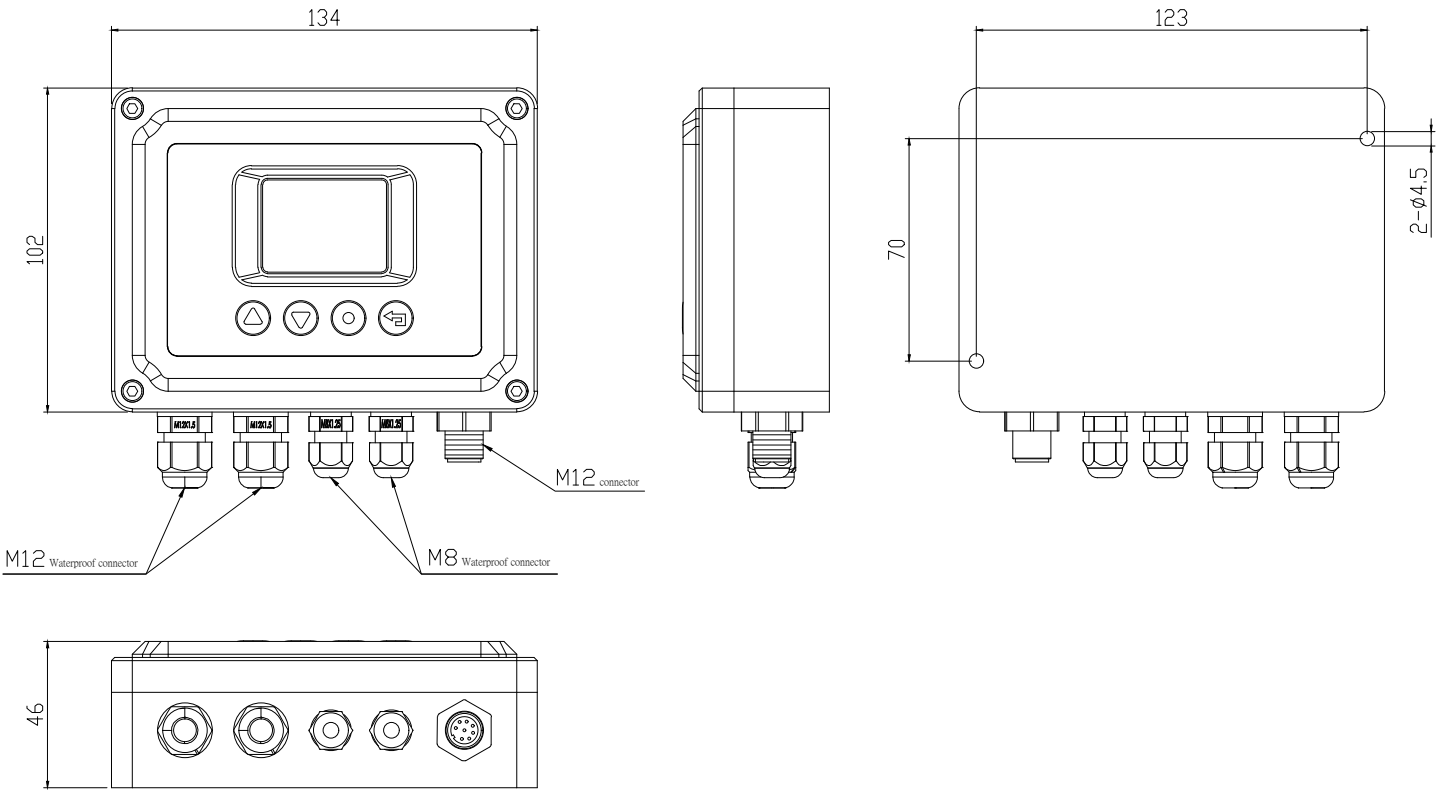


\*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.




Flow-FB500-UM06


Dimension | Unit : mm



Clamp on type transducer

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