

## 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 :  $\geq 10 \text{ k}\Omega$

### Accuracy

Accuracy  $\pm 1\%$  F.S.

### Display

Display readout -99.99 ... +99.55 (Flow rate)

0 ... 999999 (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

### Protection

IP rating IP65 (Housing)

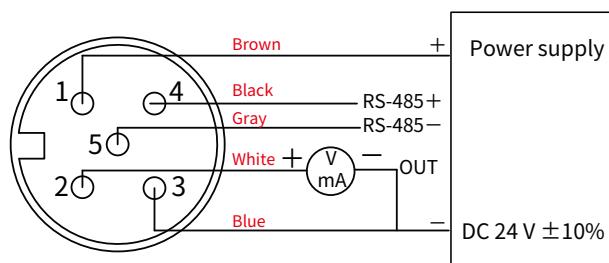
Electrical protection ■ Reverse polarity ■ Over-voltage

### Material

Housing Aluminum alloy

Probe PC

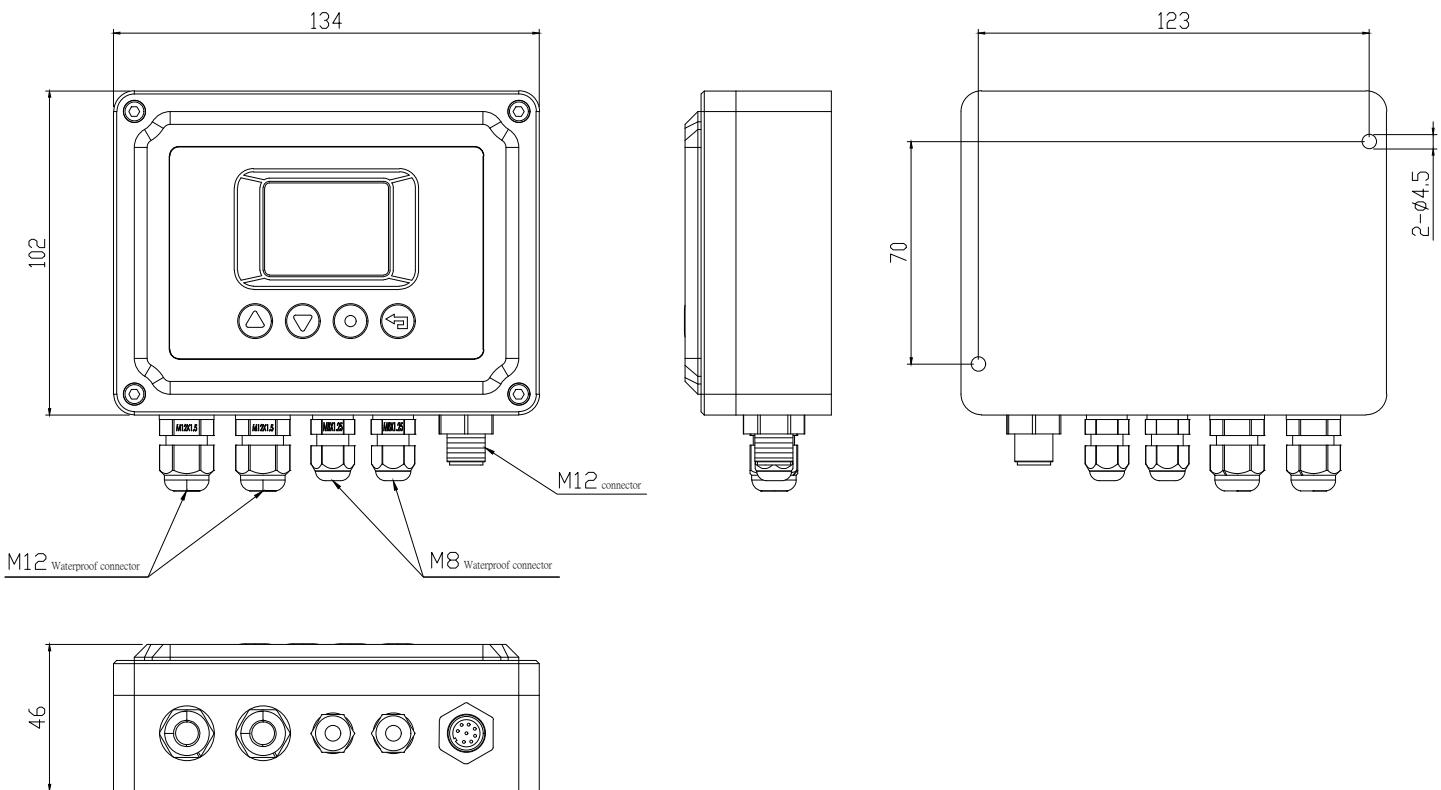
## | Diagram |



\*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 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

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