



FUM05B

Achieve Precision Flow Measurement & Process Control

| Features |

- Measurement accuracy 1 %
- Converter IP rating IP 67 , transducer IP rating IP 68
- Wide measurement range , pipe size from DN15mm to DN6000mm
- Connect the temperature transducer can finish the heat / energy measurement

| Introduction |

The FUM05B flowmeter can be virtually applied to a wide range of long-term online measurement. Converter protection class IP67, transducer protection class IP68. A variety of liquid applications can be accommodated: ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant, effluent.etc



Applications :
Oil and Gas Industries / Chem-
ical / Pharmaceutical / Food
and Beverage / Metal / Mining
/ Pulp and Paper / Wastewa-
ter Industries.



| Measuring Diagram-Clamp |

Flow Measurement

Heat Measurement

Features

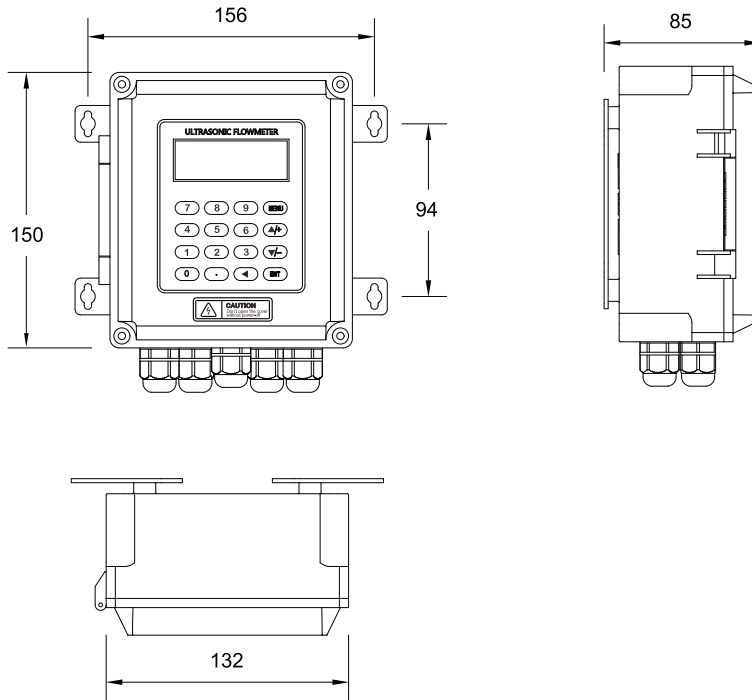


- No need to cut off water , no pressure loss
- Connect clamp-on temperature , transducer , can finish the heat / energy measurement
- Easy for installation

| Specification |

| | | | | |
|---|--|---|--------------|-------------------------------------|
| Converter | Principle | Transit-time Ultrasonic Flowmeter | | |
| | Accuracy | ± 1 % | | |
| | Data interface | Insulate RS-485, Support the Modbus | | |
| | Signal output | ● 4 ... 20 mA, electric resistance 0 ... 1 K, accuracy 0.1 % | | |
| | | ● OCT pulse output (Pluse width ... 1000 ms, default is 200 ms) | | |
| | Signal input | ● 4 ... 20 mA, accuracy 0.1 % | | |
| ● Connect the temperature tranducer Pt100 | | | | |
| Display | 2 x 20 character LCD with backlight | | | |
| Measuring medium | Type of liquid | Single liquid can transmit sound wave such as Water, Oil, Alcohol, Beverage, Ultra-pure liquid, etc. | | |
| | Temperature | -30 ... +160 °C | | |
| | Turbidity | ≤ 10000 ppm (less bubble) | | |
| | Flowrate | 0 ... ± 10 m/s | | |
| Pipe installation condition | Pipe material | Steel, Stainless Steel, Cast Iron, Copper, Cement, Pipe, PVC, Aluminum, Glass steel product, liner is allowed | | |
| | Pipe diameter | 15 ... 6000 mm | | |
| | Straight pipe | Transducer installation should be satisfied : upstream 10 D, downstream 5D, 30D from the pump | | |
| Working enviroment | Temperature | Converter : -20 ... 60 °C ; Flow Transducer : -30 ... +160 °C | | |
| | Humidity | Converter : 85 %RH ; Flow Transducer : Water depth ≤ 2m | | |
| Special cable | Twisted-pair cable , generally , the length under 50 meters ; Select the RS-485 , transmission distance can over 1000m | | Power supply | DC 8 ... 36 V or AC 85 ... 264 V |
| Power consumption | 1.5 W | | Dimension | 132 x 150 x 85 mm (converter) |

| Dimension |



| Multiple Installation Methods |

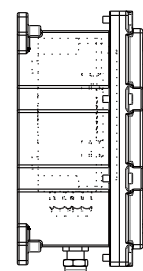
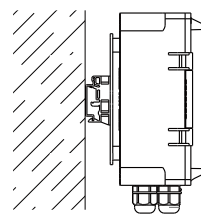
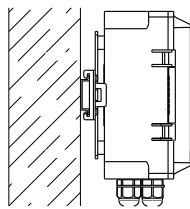
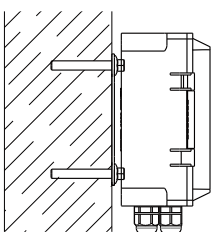
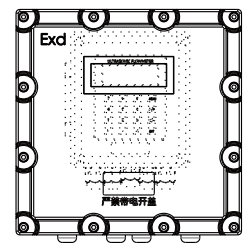
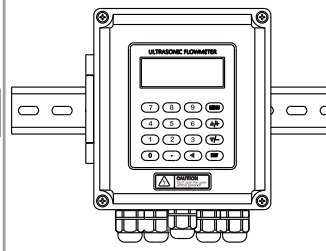
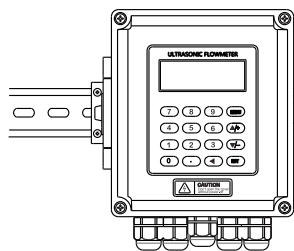
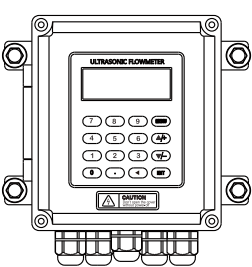
Host can choose multiple installation method, including select special accessories for wall mounting ; rail clips or A PCB mounting brackets for rail mounting. Host can be installed in an explosion-proof box

Wall Mounting Diagram

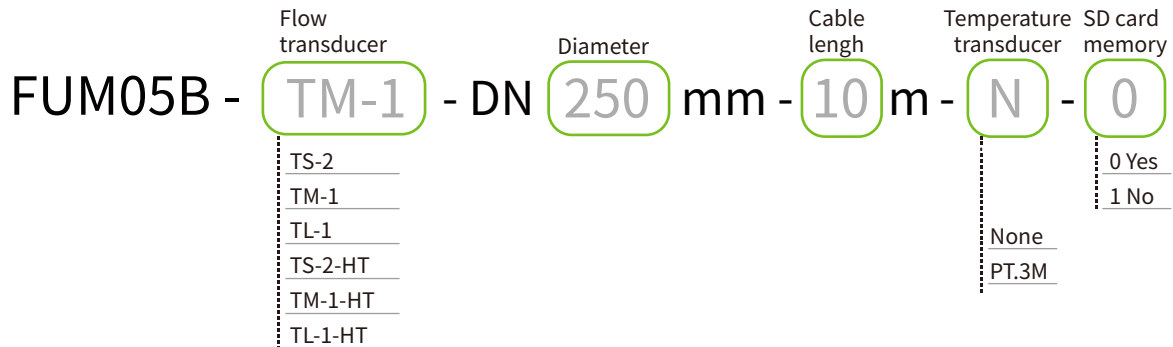
DIN-rail mounting (rail clamp) Schematic

DIN-rail Mounting (PCB Mounting Bracket) Schematic

Explosion-proof Box Installation Diagram



| Ordering Guide |



| Optional Transducers |

Please choose the suitable transducer, according to different liquid pipe condition and installation method, (please refer to the measuring diagram P2).

| Types | Picture | Model | Measurement Range | Temperature | Dimension |
|--------------------|---------|--------------------|-------------------|-----------------|-----------------|
| Clamp on | | TS-2 (Small) | DN25 ... 100 | -30 ... +90 °C | 45 x 25 x 32 mm |
| | | TM-1 (Medium) | DN50 ... 700 | | 64 x 39 x 44 mm |
| | | TL-1 (Large) | DN300 ... 6000 | | 97 x 54 x 53 mm |
| High temp clamp on | | TS-2-HT (Small) | DN25 ... 100 | -30 ... +160 °C | 45 x 25 x 32 mm |
| | | TM-1-HT (Medium) | DN50 ... 700 | | 64 x 39 x 44 mm |
| | | TL-1-HT (Large) | DN300 ... 6000 | | 97 x 54 x 53 mm |

| Optional Temperature Transducer |

Connect the temperature transducer can finish the heat / energy measurement

| Picture | Specification | Model | Measurement Range | Temperature | Cut of water | Accuracy |
|---------|--------------------------------------|-------|-------------------|----------------|--------------|--|
| | Pt100 Patch Type Surface Thermometer | PT.3M | < DN50 | -40 ... +60 °C | No | 100 °C ± 0.8 °C Exact match temperature difference ≤ 0.1 °C |

| Optional SD card memory |

Convenience for long-term and large data storage. Available to do the data processing like tabulation, statistical, data analysis, printing reports and production flow curve by using data analysis software.

SD card optional

