

Module Din Rail Ultrasonic Flow Meter



Overview

EDM Ultrasonic flow meters operate by alternately transmitting and receiving a frequency between two transducers and measuring the time that it takes for sound to travel between the two. The difference in the transit time is directly and accurately related to the velocity of the liquid in the pipe. This din rail ultrasonic flow meter is designed for use in a closed conduit. The transducers are clamp-on types, which in turn makes for easy installation and operation.

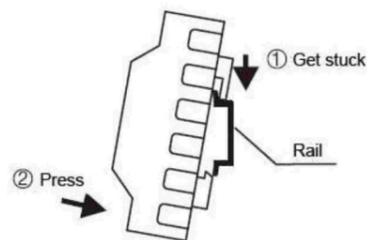
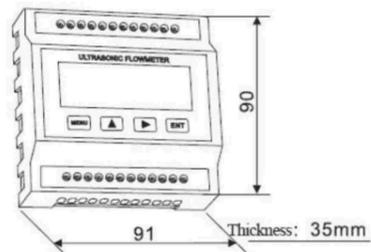
Ultrasonic flow meter, can be used for nearly any liquid from pure water, sewer water, petrol chemicals, metallurgy, electric power plant coolant flow, irrigation, city water, energy monitoring, the meter can indicate flow velocity, flow rate, total flow for nearly any fluid.

Din Rail type ultrasonic flow meter is high reliability of flow meter, widely used in petroleum, chemical industry, food, electricity, water supply and drainage, etc.

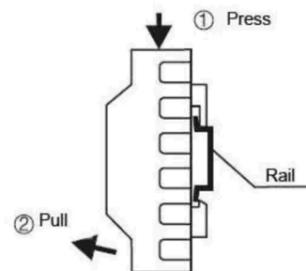
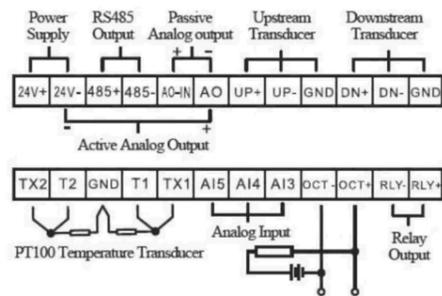
Features

- Pipelines from DN15mm up-to Dn6000mm
- Flow speeds as low as 0.01 m/s and as high as 32 m/s
- Ambient temperatures as low as -65 deg C and as high as +70 deg C and at 100% humidity
- Liquid temperatures in the range of -30 deg up-to 160 deg C
- Accuracy: $\pm 1\%$ of reading at rates >0.2 mps
- Non-contact and low-maintenance sensor
- Highest precision on the basis of individually calibrated ultrasonic transducers and transmitters

Dimensions

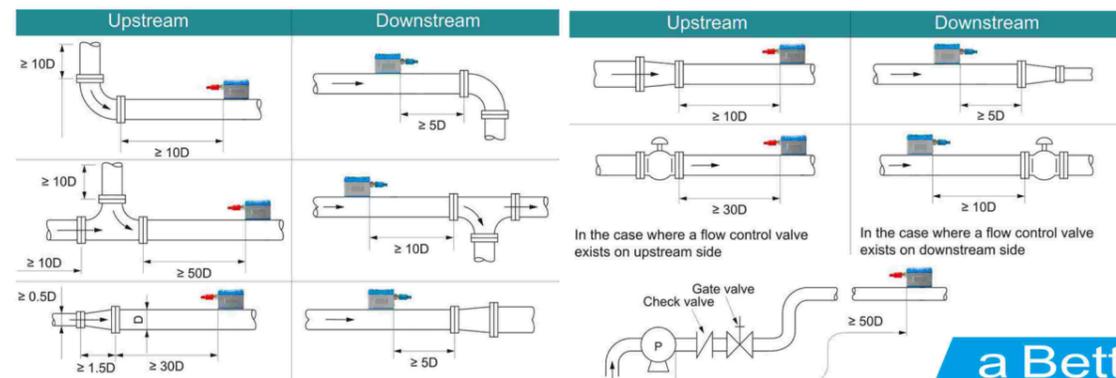


Wiring



Parameters

| | |
|---------------------|--|
| Measuring Principle | Transit time ultrasonic |
| Pipe Size | S2 transducer: DN15~DN100 (1/2" ~ 4") M2 transducer: DN50~DN700 (2"~ 28") L2 transducer: DN300~DN6000 (12"~ 240") |
| Pipe Material | Carbon Steel, Stainless Steel, Cast Iron, Ductile Iron, Copper, PVC, Aluminum, etc |
| Display | 2 line LCD with green backlight |
| Engineering Units | Flow Unit: cubic Meter, Liter, US Gallon, Million US Gallon, Cubic feet, US liquid barrel, Imperial liquid barrel, Oil barrel Heat Unit: GJ, KC, KWh, BTU |
| Time units | Second, Minute, Hour, Day |
| Accuracy | $\pm 1\%$ of reading (0.5 ~ 5 m/s) |
| Data logger | SD card optional |
| Repeatability | $\pm 1\%$ of reading |
| Communication | RS485 - Modbus RTU / ASCII |
| Keypad | 16 key with tactile action |
| Response Time | 0-999 seconds, user chose |
| Flow Velocity | 0.5-10 m/s |
| Temperature | Transmitter: -30°C~60°C Transducer: -30°C~90°C standard, -30°C~160°C optional |
| Max.Cable Length | 100 meter |
| Power Consumption | Less than 5W |
| Power Supply | 24VDC and -85 ~264VAC 50/60HZ |
| Data Storage | Operation parameters, totalization |
| Output | One way 4-20mA analog, electric resistance: 0~1k, accuracy: 0.1% One way OCT pulse One way Relay |
| Input | 3 ways 4~20 mA analog, accuracy: 0.1% |
| Protection | Converter and Sensor: IP65; Sensor: IP68 optional |



Note:
D: Inside diameter of pipe (mm)

TECHNICAL DATA altered can be change without prior notice.
Perubahan DATA TEKNIS dapat dilakukan tanpa pemberitahuan.

a Better Way