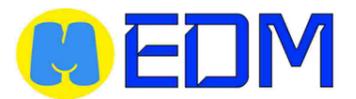# Ultrasonic Flow Meter for Small Pipe

EDM

Overview

Easily and friendly for installation and operation. It only takes a few minutes, from the start of installation to using the flow meter.

EDM QT811 adopts a new external clamp design, which could get the flow rate without touch the measurement medium. Compared with other traditional flow meter, this could avoid pressure loss or media contamination problems. As the advantage of a clamp on flow meter, no need to cut off the pipe or long time stop the equipment, save the cost of time and labor costs.

A variety of modes are available for setting and flexibility. One set is universal for all pipe size in the measuring range, and suitable for many kinds of metal and resin pipes.

256*128 LCD display. Display a variety of information. It is optional to become an ultrasonic cooling (heat) meter/ btu meter/ energy meter to realize the monitoring and measurement of energy.

Features

- Pipelines from DN15mm up-to DN40mm
- Suitable for various liquids (water, oil, diesel fuel, chemical and compatible with various pipeline materials (Metal /PVC, PP or PVDF rigid plastic pipe)
- Accuracy: ± 2%, (1% after calibration)
- Non-contact and low-maintenance sensor
- Highest precision on the basis of individually calibrated ultrasonic transducers and transmitters

Dimensions

139   139

71,00   95
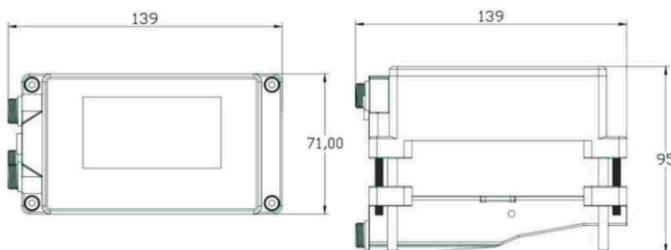
Unit: mm

Wiring

DC +	Power Supply DC10~36V
DC -	
IOUT +	4 -20 mA Output
IOUT -	
A	RS485 Communication Modbus RTU
B	
In2 +	Temperature transducer Outlet
In2 -	
GND	

Parts

Ultrasonic Flowmeter   Power Supply Cable   Signal Cable   Screw   Couplant

Parameters

Measuring Principle	Transit time ultrasonic
Pipe Size	DN15~DN40 (Inner diameter 12mm~ Inner diameter 40mm)
Pipe Material	Metal /PVC, PP or PVDF rigid plastic pipe
Liquid Type	Water, oil, chemical, diesel fuel or other liquid (Single liquid medium without solid particles or impurities)
Display	256*128, LCD
Accuracy	±2%, (1% after calibration)
Data Storage period	300ms
Memory for data backup	EEPROM (Data storage: over 10 years, data read/write frequency: over 1 million times)
Communication	RS485 - Modbus RTU / ASCII
Output	4-20mA
Response Time	0.5~60s
Low velocity cut off value	0.1m/s (default)
Temperature Range	0-75℃ (No freezing on the surface)
Power and IO connection	M12 type aviation plug
Power Consumption	< 3W
Power Supply	10-24V VDC
Data Storage	Operation parameters,totalization
(Options for output)	OCT (pulse output)/ One relay alarm (please contact the factory)
Protective circuit	Power reverse connection protection, Power surge protection, Output short circuit protection, Output surge protection
Protection	IP65
Environment temperature	-10°C to 60°C (No freezing)
Relative humidity	35 to 85% RH (No condensation)
Vibration resistance	10~55Hz ; double amplitude 1.5 mm, 2 hours in each XYZ axis
Impact resistant	100 m/s 16 ms pulse, 1000 times each for X, Y and Z axis
Main material	Aluminum, Industrial Plastics
Cable length	2m(standard), PT1000 sensor standard cable length is 9m
Flow Range	DN15: 60 L/m, DN20: 100 L/m, DN25: 200 L/m, DN32: 300 L/m, DN40: 400 L/m

a Better Way