

DUF100-EC Wall-mounted Doppler Ultrasonic Flow Meter

DUF100-EC Wall-mounted Doppler Ultrasonic Flow Meter is designed to measure volumetric flow of liquid within closed conduit, the pipe line must be full of liquids, and there must be a certain amount of air bubbles or suspended solids in liquid.

The Doppler ultrasonic flow meter can display flow rate and flow totalizer, etc., and is configured with 4-20mA, Relays for Totalizer and Alarm outputs.



Features:

- ◆ It is suitable for pipe sizes ranging from 25 to 4000mm
- ◆ For dirty liquids, a certain amount of air bubbles or suspended solids shall be contained
- ◆ Excellent low flow rate measurement ability, low to 0.05m/s
- ◆ A wide range of flow measurement, high flow rate can reach 12m/s
- ◆ High-temperature transducer is suitable to liquids of -35°C ~ 200°C
- ◆ Do not need to shut down the pipe flow when installing the transducers
- ◆ User-friendly configuration
- ◆ 4-20mA, Relay Totalizer and Relay Alarm outputs
- ◆ Accuracy: 2.0% Calibrated span

Applications:

- ◆ Raw sewage
- ◆ Activated sludge
- ◆ Ground water
- ◆ Pulp and paper slurries
- ◆ Chemical slurries
- ◆ Drainage
- ◆ Mining recirculation

Technical Parameters:

Accuracy	0.5% -- 2.0% F.S.
Repeatability	0.2%
Response Time	2-60s for optional
Principle	Doppler ultrasonic
Measurement period	500 ms
Flow Velocity Range	0.05- 12 m/s
Pipe size	25--4000 mm
Liquid types	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 micron.
Units	Rate and Velocity Display: gallons, ft ³ , barrels, lbs, liters, m ³ ,kg Units of time: second, minute, hour, day
Display	2 line × 8 characters LCD, 8-digit rate or 8-digit total (resettable)
keypad	6pcs buttons
Current output	4-20mA electric current loop output, Load <750 Ω
Relay output	4-20mA, Relays for Totalizer and alarm output
Transducer	Clamp-on
Temp. range	Transmitter -20-+85°C, Transducer-35-+80°C, High temp.transducer -35-200°C (optional)
Transducer cable	Standard 5m. Mix 300m
Power supply	AC: 85-265VAC, DC: 24V/500mA
Size	255X205X100mm
Transmitter weight	1.5Kg