

EP Doppler Portable Ultrasonic Flow Meter

EP Doppler Portable Ultrasonic Flow Meter is designed to measure volumetric flow of 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, OCT outputs



Features:

- ◆ It is suitable for pipe sizes ranging from 40 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 $-35^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- ◆ Do not need to shut down the pipe flow when installing the transducers
- ◆ User-friendly configuration
- ◆ 4-20mA, OCT outputs
- ◆ Accuracy: 2.0% Calibrated span
- ◆ Rechargeable battery can work up to 50 hours

Applications:

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

Technical Parameters:

Specifications: Transmitter

Measurement principle	Doppler ultrasonic
Resolution	0.25mm/s
Repeatability	0.2% of reading
Accuracy	0.5% -- 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12 m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 micron.
Power Supply	AC: 85-265V
Enclosure type	Portable
Degree of protection	IP65 according to EN60529
Operating temperature	-20°C to +60°C
Housing material	ABS
Measurement Channels	1
Display	2 line x 8 characters LCD, 8-digit rate or 8-digit total (resettable)
Units	User Configured (English and Metric)
Rate	Rate and Velocity Display
Totalized	gallons, ft³, barrels, lbs, liters, m³,kg
Communication	4-20mA,OCT output
keypad	6pcs buttons
Size	Transmitter:270X125X175mm
Weight	3kg

Specifications: Transducer

Transducers Type	Clamp-on
Degree of protection	IP65. IP67 or IP68 according to EN60529
Suited Liquid Temperature	Std. Temp.: -35°C~85°C for short periods up to 120°C High Temp.: -35°C~200°C for short periods up to 250°C
Pipe diameter range	40-4000 mm
Transducer Size	60(h)*34(w)*33(d)mm
Material of transducer	Aluminum for standard temp. sensor, peek for high temp. sensor
Cable Length	Std: 5m

Images:



Transmitter



Transducer



S-S Belt



Couplant



Soft Case

Configuration Code:

Portable Doppler Clamp-on Series Flowmeters			
Power supply			
A	85-265VAC		
Output Selection 1			
N	N/A		
1	4-20mA		
2	OCT		
Output Selection 2			
	Same as above		
Sensor Type			
D	Standard Clamp-on transducer (DN40-4000)		
Transducer Temperature			
D	-35 ~ 85°C (for short periods up to 120°C)		
H	-35 ~ 200°C		
Pipeline Diameter			
DNX	e.g.DN40—40mm, DN4000—4000mm		
Cable length			
5m	5m (standard 5m)		
Xm	Common cable Max 300m (standard 5m)		
XmH	High temp. cable Max 300m		
<div> <div>EP</div> <div>A</div> <div>1</div> <div>/LDP</div> <div>D</div> <div>S</div> <div>DN600</div> <div>5m</div> <div>(example configuration)</div> </div>			