

Wall-mounted Doppler Ultrasonic Flowmeter

DF6100-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, 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, Relay and OCT outputs
- ◆ Accuracy: 2.0% Calibrated span

Applications:

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

Specifications: Transmitter

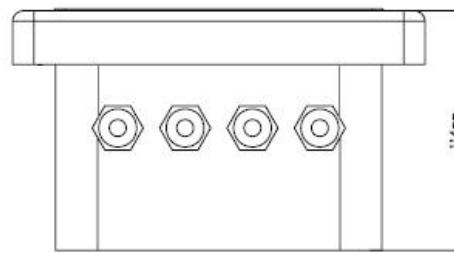
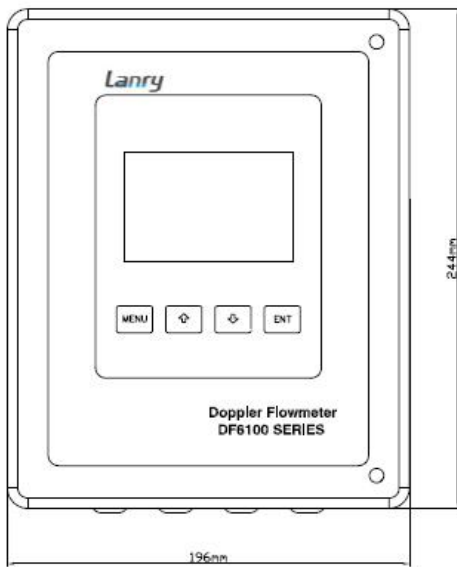
Measurement principle	Doppler ultrasonic
Resolution	0.25mm/s
Repeatability	0.2% of reading
Accuracy	0.5% -- 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12 m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 micron.
Power Supply	AC: 85-265V DC: 24V/500mA
Enclosure type	Wall-mounted
Degree of protection	IP66 according to EN60529
Operating temperature	-20°C to +60°C
Housing material	Fiberglass
Measurement Channels	1
Display	2 line × 8 characters LCD, 8-digit rate or 8-digit total (resettable)
Units	User Configured (English and Metric)
Rate	Rate and Velocity Display
Totalized	gallons, ft ³ , barrels, lbs, liters, m ³ ,kg
Communication	4-20mA, Relay and OCT output
keypad	4pcs buttons
Size	244(h)*196(w)*114(d)mm
Weight	2.4kg

Specifications: Transducer

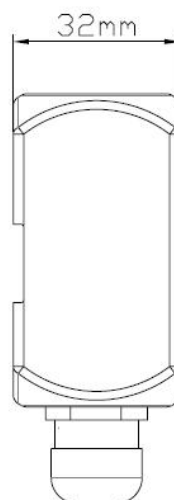
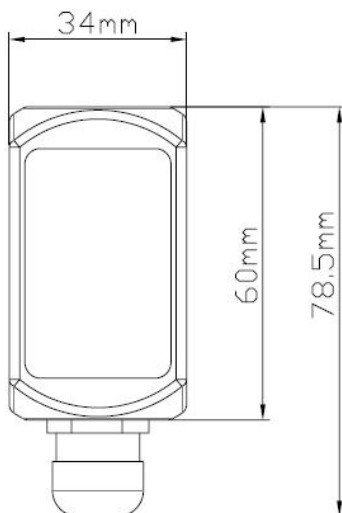
Transducers Type	Clamp-on
Degree of protection	IP65. IP67 or IP68 according to EN60529
Suited Liquid Temperature	Std. Temp.: -35°C~85°C for short periods up to 120°C High Temp.: -35°C~200°C for short periods up to 250°C
Pipe diameter range	40-4000 mm
Transducer Size	60(h)*34(w)*32(d)mm
Material of transducer	Aluminum for standard temp.sensor and peek for high temp.sensor
Cable Length	Std: 10m

Dimensional Sketches

Transmitter:



Transducer:



Images:



Transmitter



Transducer



S-S Belt



Couplant

Configuration Code:

DF6100-EC	Wall-mounted Doppler Clamp-on Series Flowmeters
Power supply	
A	85-265VAC
D	24VDC
S	65W Solar supply (including solar board)
Output Selection 1	
N	N/A
1	4-20mA
2	Relay for Totalizer
3	Relay for Alarm
Output Selection 2	
Same as above	
Sensor Type	
S	Standard Clamp-on transducer (DN40-4000)
Transducer Temperature	
S	-35~85°C (for short periods up to 120°C)
H	-35~200°C (for short periods up to 250°C)
Pipeline Diameter	
DNX	e.g. DN40—40mm, DN4000—4000mm
Cable length	
10m	10m (standard 10m)
Xm	Common cable Max 300m(standard 10m)
XmH	High temp. cable Max 300m

DF6100-EC — A — 1 — 2 /LDC— S — S — DN100 — 10m (example configuration)



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