

Insertion Doppler Ultrasonic Flowmeter

Series DF6100-EI Doppler Insertion

Ultrasonic Flow Meter can measure metal or plastic pipes with a certain amount of air bubbles or suspended solids.

Advanced technique allows this instrument to operate with high reliability and low maintenance. Insertion transducers permit the instrument to be installed without interrupting system pressure or flow.



Features:

- ◆ It is suitable for pipe sizes ranging from 65 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 $-35^{\circ}\text{C} \sim 150^{\circ}\text{C}$
- ◆ 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

Technical Parameters:
Specifications: Transmitter

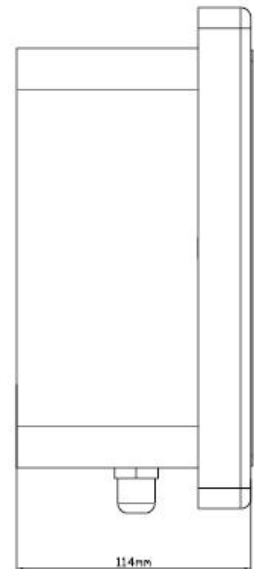
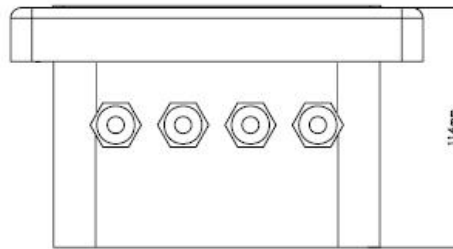
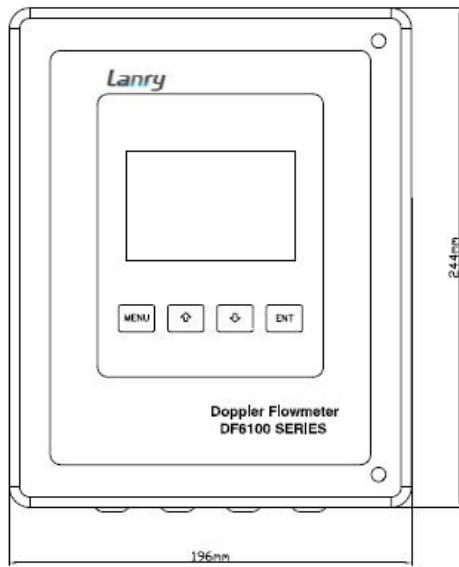
Measurement principle	Doppler ultrasonic
Resolution	0.25mm/s
Repeatability	0.2% of reading
Accuracy	0.5% -- 2.0% F.S.
Response time	2-60s for optional
Flow Velocity Range	0.05- 12 m/s
Liquid Types Supported	Liquids containing 100ppm of reflectors and at least 20% of the reflectors are larger than 100 micron.
Power Supply	AC: 85-265V 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

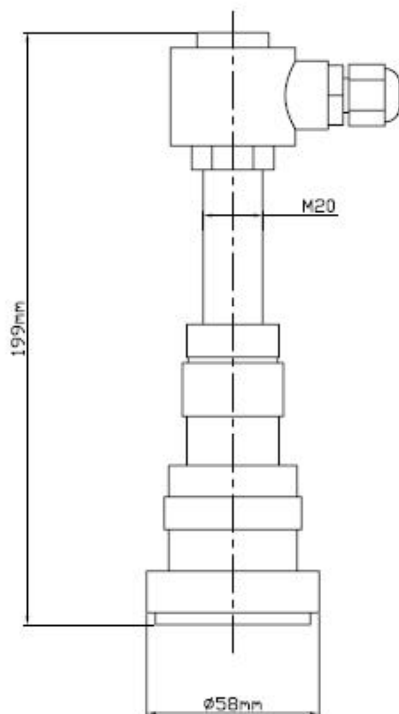
Transducers Type	Insertion
Degree of protection	IP67 or IP68 according to EN60529
Suited Liquid Temperature	Std. Temp.: -35°C~85°C High Temp.: -35°C~150°C
Pipe diameter range	65-4000 mm
Transducer Size	58*58*199mm
Transducer material	Stainless steel
Cable Length	Std: 10m

Dimensional Sketches

Transmitter:



Transducer:



Images:



Transmitter



Transducer



Drilling Rod and Drill Bit

Configuration Code:

DF6100-EI	Inserion Series Doppler Ultrasonic 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	
3	OCT	
	Output Selection 2	
	Same as above	
	Sersor Type	
S	Standard Insertion Transducer (DN65-6000)	
	Transducer Temperature	
S	-35 ~ 85°C (for short periods up to 120°C)	
H	-35 ~ 150°C	
	Pipeline Diameter	
DNX	e.g.DN65—65mm, DN6000—6000mm	
	Cable length	
10m	10m (standard 10m)	
Xm	Common cable Max 300m(standard 10m)	
XmH	High temp. cable Max 300m	

DF6100-EI — A — 1 /LDI— S — S — DN100 — 10m (example configuration)