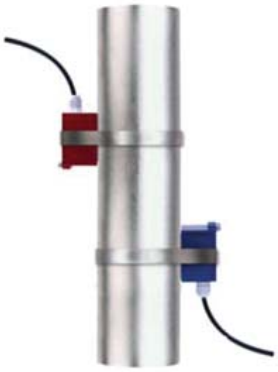
06. Clamp-On Ultrasonic Flow Meter

The FLO100 is the fixed type ultrasonic transit-time flow meter for long-term flow measurement.
The flow meter measures the flow rate of liquid in a closed pipe by using a pair of clamp-on sensors. WESS use its own patented technologies such as advanced signal processing and low-voltage operation to achieve high accuracy and reliable performance.
Besides, the product provides versatile output interfaces, analog and digital, which can be easily used by a PLC or a flow computer.





Product Features

1. Positive / negative / net flow totalizer
2. Proprietary low-voltage transmission and self-adaptation technologies.
3. No pipe cutting or process interruption by using clamp-on technology
4. Able to measure electrically conductive and non-conductive liquids.

Applications

The flow meter can be applied to a wide range of pipe flow measurements.

1. Water (hot water, chilled water, city water, sea water, waste water, etc.)
2. Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.)
3. Chemicals (alcohol, acids, etc.)
4. Plant effluent
5. Beverage, liquid food
6. Ultra-pure liquids



Specifications

Controller



C5S

Model	C5S
Linearity	±1%
Accuracy	±1% of reading at rates ＞ 0.2m/s (0.65ft/s)
Repeatability	±0.2%
Velocity	±0.01 ~ ±30m/s, bi-directional
Measurement period	0.5 Sec.
Display	LCD Character
Outputs	1) Analogue output : 4-20mA or 0-20mA (Impedance 0~1kΩ) 2) Relay output 1EA X 1A@125VAC or 2A@30VDC 3) Digital output : RS485 4) Pulse output : 12~9999Hz
Input	2EA X 4-20m A current inputs (option : 5 inquts)
Logging	Max 5 years totalizing data
Enclosure	Body/Cover : ABS, Window : Polycarbonate
IP	IP65
Dimension	231(W) x 185(L) x 120(H)mm

Sensor



S5G

Model	S5G
Sensor type	Clamp-on
Pipe size	50A ~ 700A
Temperature	-10 ~ 70℃
Materials	• Head: Epoxy • Case : Aluminum
Dimension	70(W)x43(L)x50(H)mm

Model	S5L
Sensor type	Clamp-on
Pipe size	300A ~ 6000A
Temperature	-10 ~ 70℃
Materials	• Head: Epoxy • Case : Aluminum
Dimension	89(W)x57(L)x60(H)mm