

FLT 10

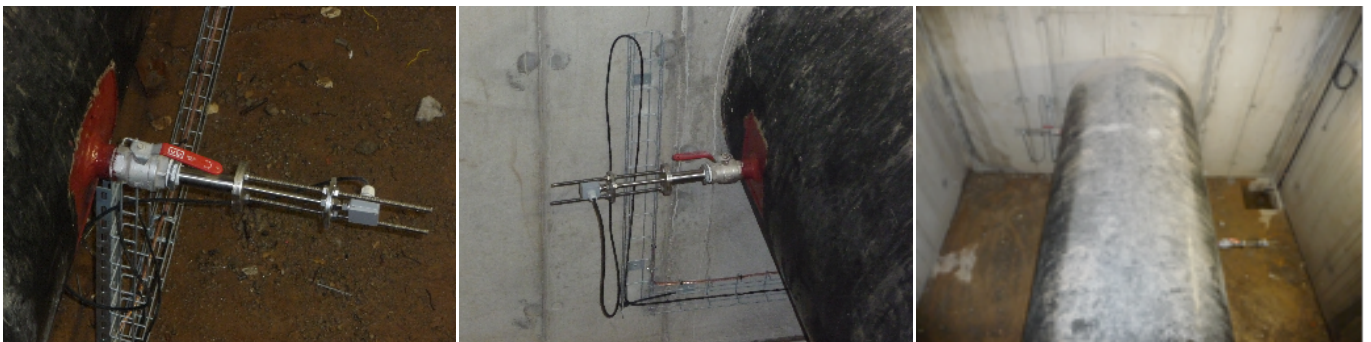
DIGITAL ULTRASONIC FLOWMETER

For pipes Under pressure

-AC/DC power supply or battery operating (10 years)*-



- High accuracy measurement of bi-directional flow for **homogeneous fluids**
- All kind of under pressure pipes **materials from diameter 50mm up to 5,000 mm.**
- Digital processing microprocessor
- Automatic zero calibration
- Autonomous version with internal lithium battery **up to 10 years autonomy***.
- Open channels version** with level measurement (**FLT10 CO**)



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A **FLOW-LAB**
Technologies

The **FLT10 ultrasonic flowmeter (fixed converter)** has been designed for measuring **bi-directional flow in all kinds of pipes material under pressure**, at very high accuracy, with pipes diameters **between 20 and 5000 mm**.

*Note: A version for non pressurised pipes (Open channels, rivers,) **the FLT10 OC** is also available*

Can operate on **all kind of homogeneous fluids, even if not conductive**.

Compatible with **all probes/sensors** (intrusive or clamp-on) from our range-

Available **with mono-chord** (1 set of probes) or **multi-chords sensors** (up to 4 sets) depending on applications.

Data for Flow and volume are recorded and stored (time encoding) in local memory with standard storage capacity of minimum 20 000 data (expendable in option).

Measurement principle

The FLT 10 ultrasonic flow meter is measuring **the transit time of an acoustic wave** generated **in a homogeneous fluid**. Sound wave propagation velocity is directly proportional to the fluid velocity within the pipe.

Technical Features

Converter can be mounted or remotely deported from sensors (Full-bore)

Standard housing is built in cast aluminium with **IP 67 grade**.

- Dimension: 180x180x110 mm

- Weight: 2 kg

Power supply:

- External: 220Vac 50/60 Hz or 12/24 Vdc

- Internal: **Lithium batteries** (up to 120 months autonomy)

Consumption

*depending on sites conditions and configuration

- 60mA on 220 V50/60 Hz

- 300 mA on 12 Vdc

Outputs are protected and galvanically insulated. Programmable on site using integrated user's interface.

- Current outputs: 0 or 4-20 mA on 500 Ω (not available with battery)

- Pulses rate configuration : 1L to 100 m3

- Pulse band width: 100 to 1000 ms

- Flow direction: output open collector

- Communication port :RS 232 (115,200 Bauds)

- Flow in l/s l/h m3/s m3/h, (4 digits)

Bidirectional volume readings and totalizers:

- 2 Totalizer without reset

- 1 totalizer with reset (direct way)

- 1 totalizer with reset (reverse way)

Graphical back-lighted LCD display (2 lines) with displayed parameters

- Flow, Volume, Velocity

- Damping

- Full scale adjustment

- Totalizer output, Pulse band width

- Flow direction (bidirectional).

Performances

- Accuracy: better than 1 % for flow (0, 5 % for velocity)

- Measure range between 0,01 to 15 m/s