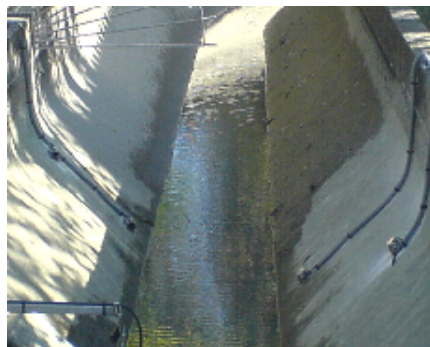# FLT10 OC

Digital ULTRASONIC FLOWMETER

For Open Channel and surface water

- High accuracy measurement of bi-directional flow for **all kind of homogeneous fluids**
- Digital processing microprocessor
- Automatic zero calibration
- Autonomous version with internal lithium battery **up to 10 years** *.
- Also Available for **Under pressure pipes** with insertion (wet) sensors **(FLT10)**

The **FLT10 OC ultrasonic flowmeter** has been designed for measuring **bi-directional flow in open channels** by combining both flow velocity and level measurement with high accuracy. **(**water channels, rivers, waste water, **)**
Note: A version for pressurised pipes **the FLT10** is also available

It can operate on **all kind of homogeneous fluids, even if not conductive.**
It is compatible with **all probes/sensors** from our range **with mono-chord** (1 set of probes) or **multi-chords sensors** (up to 4 sets) for velocity (m/s) and Ultrasonic (submersible / air) or piezzo-electric for levels (m/bar).
Data for both velocity / level and flow / volume calculated are recorded and stored (time encoding) in local memory with standard storage capacity of minimum 20 000 data (expendable in option).

Measurement principle
The **FLT10 OC** ultrasonic flow meter is measuring **simultaneously the transit time of an acoustic wave generated perpendicularly to the open channel flow (using minimum dual chord submersible sensors)** and **level variation** (using an ultrasonic or piezo sensor)

Technical Features
Std Housing is built in cast aluminium with **IP 67 grade.**
        -Dimension: 180x180x110 mm
        -Weight: 2 kg
Power supply:
        -External: 220Vca 50/60 Hz or 12/24 Vdc
        -Internal**: Lithium batteries (**up to 120 months autonomy*)

                              *depending on sites conditions and configuration
Consumption :
        -60mA on 220 V50/60 Hz
        -300 mA on 12 Vdc
Outputs are protected and galvanicaly insulated. Programmable on site using integrated user's interface.
        -Current outputs: 0 or 4-20 mA on 500 Ω (not available with batter y)
        -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 %
Measure range between 0,01 to 15 m/s