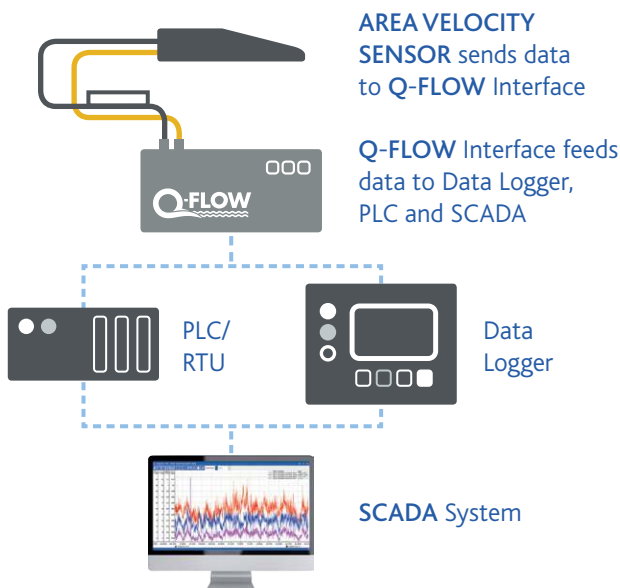


Q-FLOW 25

THE Q-FLOW 25 IS DESIGNED TO BE AN ADAPTABLE AREA VELOCITY FLOW METER THAT CAN BE CONNECTED TO ANY DATA LOGGER OR INTEGRATE INTO AN ESTABLISHED SCADA SYSTEM.



HOW IT WORKS



Installed within the open channel, the sensor simultaneously uses ultrasound waves to measure the velocity of the liquid flow and pressure sensing technology to establish depth.

Pre-configured dimensions of the pipe or channel are used to determine the overall volume of flow.

The Q-FLOW 25 interface converts the raw data received from the sensor into recognised languages, including Modbus, SDI12 and frequency outputs are all optional.

The Q-FLOW 25 interface can be connected to a PLC or RTU, to a data logger or integrated directly into a SCADA System, giving the user full control.

Q-FLOW 25

KEY FEATURES

ON-BOARD FLOW CALCULATION

Works in rectangular, circular or trapezoidal pipes. Pulse output can be used for flow proportional sampling.

IN-BUILT TEMPERATURE SENSORS

In-built temperature sensors measure both the water and ambient temperature. Hugely beneficial for inflow and infiltration studies.

MARKET LEADING ACCURACY

Uses velocity and depth to calculate the overall flow.

COST EFFECTIVE

The Q-FLOW interface can be connected directly to the customer's data management system, negating the need for additional data loggers, transmitters and controllers.

TECHNICAL SPECIFICATION

VELOCITY SENSOR

Dual piezoelectric elements.

DEPTH SENSOR

Hydrostatic pressure.

INTEGRATED TEMPERATURE COMPENSATION

Titanium diaphragm isolated silicon sensor.

PHYSICAL

Sensor cable 10m as standard, up to 20m.

ENVIRONMENTAL

Sensor module protection: IP68. Operating temperature: -20°C to +60°C.

APPROVALS

Version available with ATEX Zone 0 approval, Sira 18ATEX2194X and IECEx SIR 18.0049X.

PERFORMANCE - VELOCITY SENSOR

Velocity range: 0.03m/s to 4.00m/s (resolution 1mm/s).

Linearity: $\pm 1\%$.

Velocity Sensor Accuracy: $\pm 2.5\%$ FS ($\pm 1\%$ in calibrated range 0.05m/s - 2.00m/s).

PERFORMANCE - DEPTH SENSOR

Range: 0.0m to 3.5m (resolution 1.0mm).

Linearity: 0.1% BSL.

Accuracy: $\pm 0.2\%$ FS ($\pm 0.1\%$ in calibrated range 0.03m - 2.00m).

PERFORMANCE - TEMPERATURE SENSOR

Range -20°C to +60°C.

Resolution $\pm 0.5^\circ\text{C}$.

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