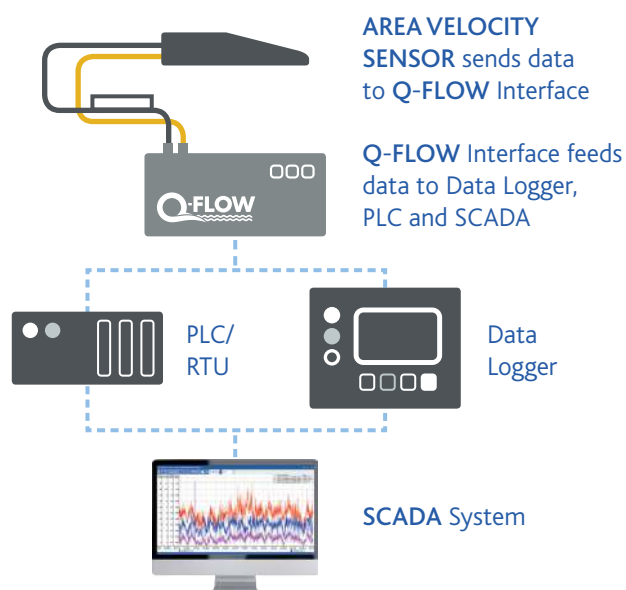


# Q-FLOW 25

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 and frequency outputs are all optional.

The Q-FLOW 25 interface can be connected to a data logger or integrated directly into a SCADA system via a PLC or RTU, 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

ATEX Zone 1

Sira 18ATEX2194X and IECEx SIR 18.0049X,

II 1G, Ex ia IIB T4 Ga, Ta = -40°C to +60°C.

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

Detectronic Limited

Regent Street

Whitewalls Industrial Estate

Colne

Lancashire BB8 8LJ

United Kingdom

+44 (0)1282 449 124

sales@detectronic.org

www.detectronic.org



[www.detectronic.org](http://www.detectronic.org)