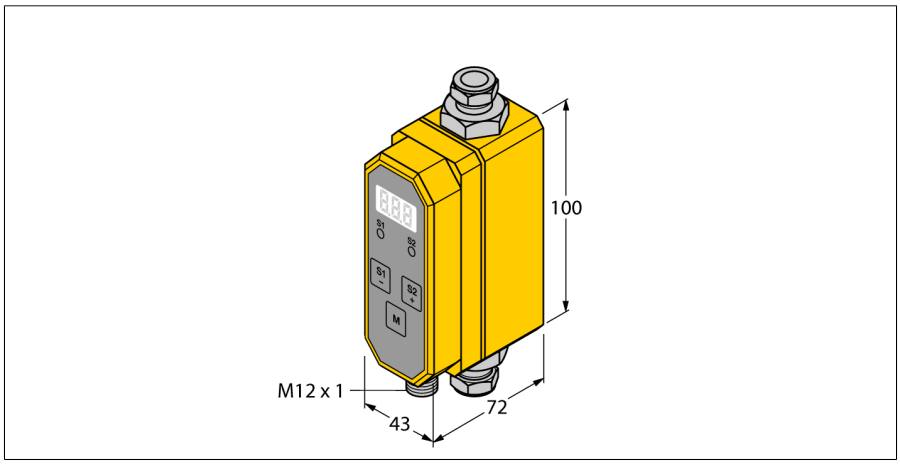
Flow rate measurement
Inline sensor with integrated processor
FTCI-1/2D10A4P-4UP8X-H1160

Industrial Automation



Type code	FTCI-1/2D10A4P-4UP8X-H1160
Ident-No.	6870815
Ident-No (TUSA)	M6870815
Mounting	inline sensor
Application area	flow rate/temperature monitoring of water or water/glycol mix
Flow operating range	1…10 l/min.
Stand-by time	6…10 s
Temperature gradient	≤ 400 K/min
Medium temperature	-10…90 °C
Ambient temperature	0…60 °C
Current consumption	≥ 100 mA
Housing material	plastic, PBT
Sensor material	stainless steel, AISI 316Ti
Pressure resistance	20 bar
Process connection	½″ swagelok

- **Compact inline flow sensor**
- **Calorimetric principle**
- **Monitoring of flow rate**
- **Monitoring of the medium temperature**
- **For water/glycol mix**
- **Parametrized via button**
- **Protected by software code**

Functional principle

The FTCIs from TURCK monitor flow rates of liquids passing through the sensor reliably and wear-free. These sensors are designed for high-precision flow rate measurement rather than simple flow monitoring tasks.

Based on the thermodynamic principle, electrical energy is converted in heat energy. The heat generated in the probe is conducted away by the flowing medium. The dissipated heat quantity is used as a direct measure for the medium's flow speed. The integrated microprocessor evaluates the data and calculates the flow rate. Based on the applied principle, the user is aso indicated the media temperature.

In addition to the standardized electrical output signals for industrial applications, the TURCK flow meters also indicated the current flow rate on its 3-digit 7-segment display.

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