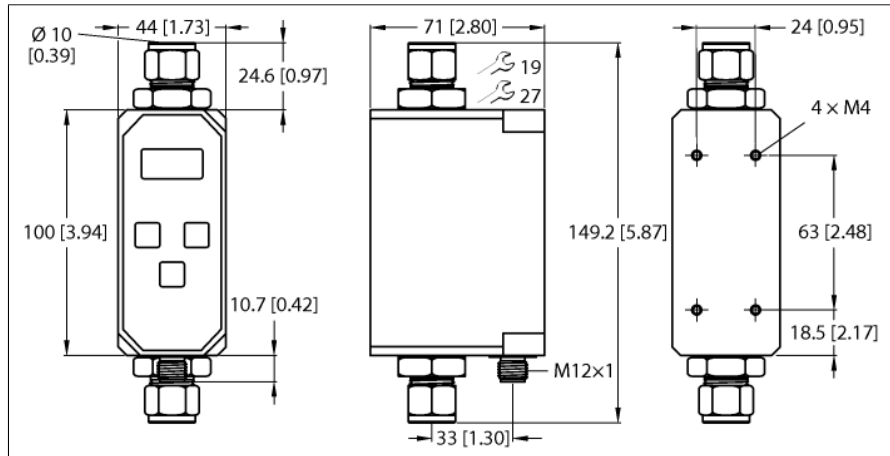


# Flow Rate Measurement

## Inline sensor with integrated processor

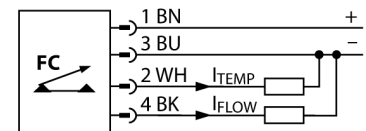
### FTCI-10D10A4P-2LIX-H1141



- Flow meter for water and water/glycol mixes up to 30%
- Calorimetric measuring principle
- Display and monitoring of flow rate and temperature
- Prog. via pushbutton, code-protected
- Repeatability < 10% f.s.
- Sealant between measuring tube and process connection FKM 5
- Output flow 4...20 mA, linear
- Output temperature 4...20 mA, linear
- DC 4-wire, 21.6...26.4 VDC
- 4...20 mA analog output
- Plug-in device, M12 x 1

<b>Type designation</b>	FTCI-10D10A4P-2LIX-H1141
Ident no.	6870049
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Type	FTCI-10D10A4P-2LIX-H1141
<b>Mounting conditions</b>	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
<b>Operating voltage</b>	21.6...26.4 VDC
Current consumption	≤ 100 mA
Output function	Analog output
Short-circuit protection	yes
Reverse polarity protection	yes
Current output	4...20 mA
Load	200...500 Ω
Protection class	IP65
<b>Design</b>	Inline
<b>Housing material</b>	Plastic, PBT
Sensor material	Stainless steel, V4A (1.4571)
Electrical connection	Connectors, M12 x 1
Pressure resistance	20 bar
Process connection	Compression fittings for pipes Ø 10 x 1 (EN10305-1)
<b>Flow state display</b>	7-segment display, status LED (yellow)
<b>Programming options</b>	glycol concentration, flow rate correction, mean value, access code

#### Wiring Diagram



#### Functional principle

The FTCT sensors from TURCK operate reliably and wear-free and indicate flow rates digitally. They are used in all kinds of flow monitoring applications. Particularly in cooling circuits, where flow rates have to be displayed. Based on the thermodynamic principle, heat is generated and then conducted away by the flowing medium. The dissipated heat quantity is used as a measure of flow speed. A micro-processor evaluates the data, calculates the flow rate and indicates the result in l/min via a 3-digit 7-segment display.

**Flow Rate Measurement**  
**Inline sensor with integrated processor**  
**FTCI-10D10A4P-2LIX-H1141**

**Accessories**

Type code	Ident no.	Description	Dimension drawing
FTCI-MP01AL	6870040	Mounting plate for FTCI flow meter for front mounting	