Temperature Sensor

FXDD119
Part Number

- **FDA compliant**
- **Response time T90: < 2 seconds**
- **Robust stainless steel housing with IP69K**
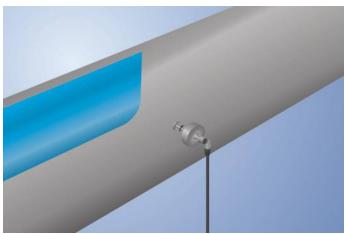- **Temperature measuring range: -50 ... +200° C**

Technical Data

Sensor-specific data	
Sensor element	PT1000, Class B
Temperature Measurement Range	-50...200 °C
Medium	Liquids, gases
Response Time	< 2 s
Environmental conditions	
Temperature of medium	-50...200 °C
Ambient temperature	-25...80 °C
Storage temperature	-25...80 °C
Mechanical Strength	100 bar
Shock Resistance	IEC 60751
Vibration resistance	IEC 60751
Mechanical Data	
Housing Material	1.4404
Material in contact with media	1.4404
Degree of Protection	IP68/IP69K *
Connection	M12 × 1; 4-pin
Process Connection	G 1/2" CIP-capable
Process Connection Length (PCL)	243,5 mm
Probe Length (PL)	200 mm
PT1000	●
Connection Diagram No.	140
Suitable Connection Technology No.	21
Suitable Mounting Technology No.	906

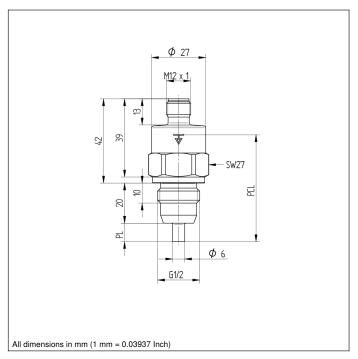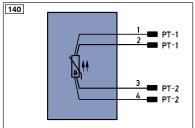* Tested by wenglor

weFlux² Temperature Sensors ensure precise temperature measurement of liquids and gases in closed piping systems. It's easy to incorporate the standardized PT100/PT1000 resistance value into the controller. The compact housing with a diameter of just 27 mm is made of V4A stainless steel and features an easy-to-clean surface. Thanks to their rugged housing and functional design, the Temperature Sensors are FDA compliant.

Fluid Sensors

All dimensions in mm (1 mm = 0.03937 Inch)

Ø 27
M12 x 1
13
42
39
SW27
PCL
20
10
PL
Ø 6
G1/2

140

1 PT-1
2 PT-1
3 PT-2
4 PT-2

Legend

+	Supply Voltage +	PT	Platinum measuring resistor	ENₐ	Encoder A	
−	Supply Voltage 0 V	nc	not connected	ENв	Encoder B	
~	Supply Voltage (AC Voltage)	U	Test Input	Aₘᵢₙ	Digital output MIN	
A	Switching Output (NO)	Ū	Test Input inverted	Aₘₐₓ	Digital output MAX	
Ā	Switching Output (NC)	W	Trigger Input	Aₒₖ	Digital output OK	
V	Contamination/Error Output (NO)	O	Analog Output	SY In	Synchronization In	
V̄	Contamination/Error Output (NC)	O−	Ground for the Analog Output	SY OUT	Synchronization OUT	
E	Input (analog or digital)	BZ	Block Discharge	Oₗₜ	Brightness output	
T	Teach Input	Aᴍᴡ	Valve Output	M	Maintenance	
Z	Time Delay (activation)	a	Valve Control Output +			
S	Shielding	b	Valve Control Output 0 V			
RxD	Interface Receive Path	SY	Synchronization			
TxD	Interface Send Path	E+	Receiver-Line			
RDY	Ready	S+	Emitter-Line			
GND	Ground	⏚	Grounding			
CL	Clock	SnR	Switching Distance Reduction			
E/A	Output/Input programmable	Rx+/−	Ethernet Receive Path			
⟲ IO-Link		Tx+/−	Ethernet Send Path			
PoE	Power over Ethernet	Bᴜꜱ	Interfaces-Bus A(+)/B(−)			
IN	Safety Input	La	Emitted Light disengageable			
OSSD	Safety Output	Mag	Magnet activation			
Signal	Signal Output	RES	Input confirmation			
BI_D+/−	Ethernet Gigabit bidirect. data line (A-D)	EDM	Contactor Monitoring			
EN₀ᵣₛ₄₂₂	Encoder 0-pulse 0-0̄ (TTL)	ENₐᵣₛ₄₂₂	Encoder A/Ā (TTL)			
		ENвᵣₛ₄₂₂	Encoder B/B̄ (TTL)			

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

c UL us LISTED PROC. CONT. EQ. E365080

EAC CE RoHS

Specifications are subject to change without notice