Flow Sensor

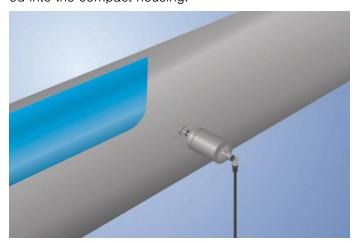
FXFF152

Part Number



- 2 analog outputs: 4 ... 20 mA
- A single sensor for flow and temperature
- FDA compliant
- Measurement independent of flow direction and instillation position

weFlux² Flow Sensors with two analog outputs simultaneously measure flow velocity and the temperature of aqueous liquids regardless of position and direction of flow. Advantage: The number of measuring points and the diversity of sensor variants are cut in half, and greatest possible flexibility is assured for installation in closed piping systems. The analysis module is integrated into the compact housing.



weFlux² InoxSens

Technical Data

Sensor-specific data			
Measuring Range	10400 cm/s		
Temperature of the medium, flow measurement	0125 °C**		
Temperature of the medium, temperature measurement	-25150 °C		
Adjustable Range	10400 cm/s		
Medium	Water		
Measuring error (total)	≤ 2 %		
Response time in case of temperature jump	10 s		
Environmental conditions			
Ambient temperature	-2580 °C		
Storage temperature	-2580 °C		
Pressure Resistance	100 bar		
EMC	DIN EN 61326-1		
Shock resistance per DIN IEC 68-2-27	30 g / 11 ms		
Vibration resistance per DIN IEC 60068-2-6	5 g (102000 Hz)		
Electrical Data			
Supply Voltage	1232 V DC		
Current Consumption (Ub = 24 V)	< 40 mA		
Analog Outputs	2		
Analog Output	420 mA Flow O2 / Temp O1		
Response Time	15 s		
Short Circuit Protection	yes		
Reverse Polarity Protection	yes		
Protection Class	III		
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	Sealing cone M18 × 1,5		
Process Connection Length (PCL)	68 mm		
Probe Length (PL)	36 mm		
Safety-relevant Data			
MTTFd (EN ISO 13849-1)	1210,41 a		
Analog output flow			
Analog output temperature			
Connection Diagram No.	141		
Suitable Connection Equipment No.	2		
Suitable Mounting Technology No.	900 901		

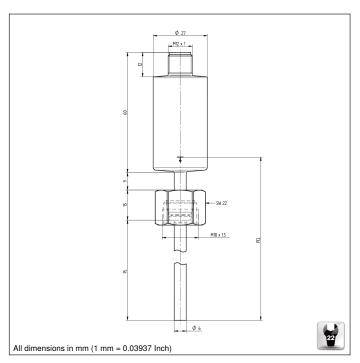
Tested by wenglor

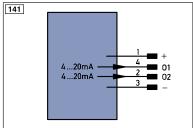
Complementary Products

Software

^{**} The sensors were calibrated and specified for the medium water. Technically, the sensors are suitable for a medium temperature of up to –25 °C. To achieve a temperature below 0 °C, a different medium must be added to the water. This leads to a different measurement result, which is why a use under 0 °C must be tested individually for the mixture used.







Legen	d	PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)	
+	Supply Voltage +	nc	not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B	
Α	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Амах	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
Т	Teach Input	Awv	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	М	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Co	/ire Colors according to IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
RDY	Ready	E+	Receiver-Line	BN	Brown	
GND	Ground	S+	Emitter-Line	RD	Red	
CL	Clock	÷	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
•	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoF	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	Mag	Magnet activation	WH	White	
	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	







