## Flow Sensor 2 × Analog Output

FXFF111

## weFlux<sup>2</sup> InoxSens

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

weFlux<sup>2</sup> 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 integrat**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					
Setting Range	10400 cm/s					
Medium	Water					
Measuring error (total)	≤ 2 %					
MTTFd (EN ISO 13849-1)	1210,41 a					
Response time in case of temperature jump	10 s					
Environmental conditions						
Ambient temperature	-2580 °C					
Storage temperature	-2580 °C					
Pressure Resistance	e 16 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					
Number of analog outputs	2					
Analog Output	420 mA					
Signal source	Flow					
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	Clamp diameter: 64 mm					
Process Connection Length (PCL)	70 mm					
Probe Length (PL)	50 mm					
Analog output flow						
Analog output temperature						
Connection Diagram No.	141					
Suitable Connection Equipment No.	2					

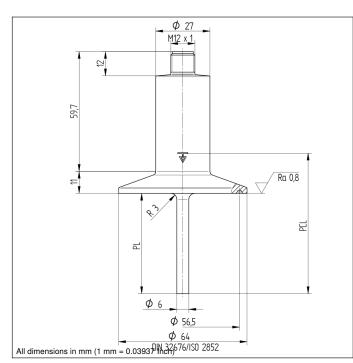
\* Certified by wenglor
\*\* The sensors were calibrated and specified for the medium water. Technically, the sensors are suitable for a medium temperature of up to -25 °C. To achieve a temperature below 0 °C, a different medium must be added to the water. This leads to a different measurement result, which is why an application below 0 °C must be tested individually for the mixture used.

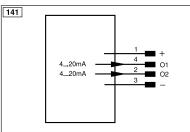


**Complementary Products** Software

**Fluid Sensors** 







Legend						
+	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	ENв	Encoder B	
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	Amax	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
$\overline{\vee}$	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	Amv	Valve Output	Olt	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	lors according to DIN 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	
$\odot$	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower 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	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
EN0 RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)			

