## Flow Sensor 2 × Analog Output

## **FXFF112**

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> InoxSens

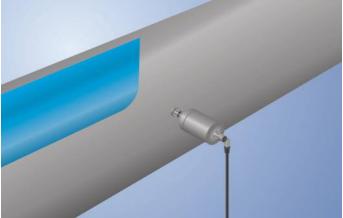
## **Technical Data**

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				
Medium	Water			
Measuring error	≤2%			
Response time in case of temperature jump	10 s			
Environmental conditions				
Ambient temperature	-2580 °C			
Storage temperature -2580 °C				
Mechanical Strength 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			
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	Varivent F			
Process Connection Length (PCL)	58,5 mm			
Probe Length (PL)	32 mm			
Analog output flow				
Analog output temperature				
Connection Diagram No.	141			
Suitable Connection Technology No.	21			

\* Tested 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 a use under 0 °C must be tested individually for the mixture used.

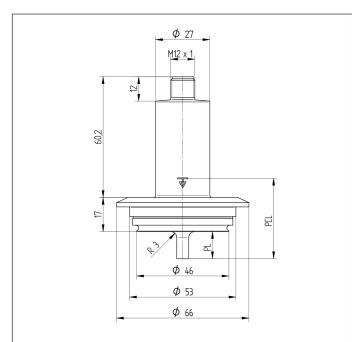
aqueous liquids regardless of position and direction of flow. Advantage: The number of measuring points and the diversity of sensor variants are cut in half, and greatest possible flexibility is assured for installation in closed piping systems. The analysis module is integrated into the compact housing.

weFlux<sup>2</sup> Flow Sensors with two analog outputs simultaneously measure flow velocity and the temperature of

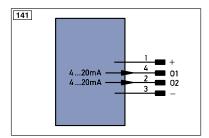


**Complementary Products** Software





All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d.				
Legen		PT	Platinum measuring resistor	ENA	Encoder A
+	Supply Voltage +	nc	not connected	ENв	Encoder B
-	Supply Voltage 0 V	U	Test Input	AMIN	Digital output MIN
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX
А	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output
E	Input (analog or digital)	Awv	Valve Output	м	Maintenance
Т	Teach Input	а	Valve Control Output +	rsv	reserved
Z	Time Delay (activation)	b	Valve Control Output 0 V		
S	Shielding	SY	Synchronization	Wire Colors according to DIN IEC 757	
RxD	Interface Receive Path	E+	Receiver-Line		
TxD	Interface Send Path	S+	Emitter-Line	BK	Black
RDY	Ready	÷	Grounding	BN	Brown
GND	Ground	SnR	Switching Distance Reduction	RD	Red
CL	Clock	Rx+/-	Ethernet Receive Path	OG	Orange
E/A	Output/Input programmable	Tx+/-	Ethernet Send Path	YE	Yellow
0	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue
IN	Safety Input	Mag	Magnet activation	VT	Violet
OSSD	Safety Output	RES	Input confirmation	GY	Grey
Signal	Signal Output	EDM	Contactor Monitoring	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	ENAR542	Encoder A/Ā (TTL)	PK	Pink
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow



Specifications are subject to change without notice