# Flow Sensor 2 × Analog Output

# **FXFF113**

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

### **Technical Data**

Sensor-specific data			
Measuring Range	10400 cm/s		
Temperature of the medium, flow measurement	0125 °C**		
Temperature of the medium, temperature	-25150 °C		
Adjustable Range	10400 cm/s		
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 N		
Process Connection Length (PCL)	58 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.

neously 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.

weFlux<sup>2</sup> Flow Sensors with two analog outputs simulta-



**Complementary Products** Software

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









Leaen	d		DŤ	Dist.	EN.	Encoder A
Logon			Ы	Platinum measuring resistor	EINA	Encoder A
+	Supply Voltage +		nc	not connected	ENB	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
۲	<b>IO</b> -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)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENO RS422	Encoder 0-pulse 0-0 (TTL)		ENBR5422	Encoder B/B (TTL)	GNYE	Green/Yellow

