Flow Sensor 2 × Analog Output

FXFF105

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

weFlux² InoxSens

Technical Data

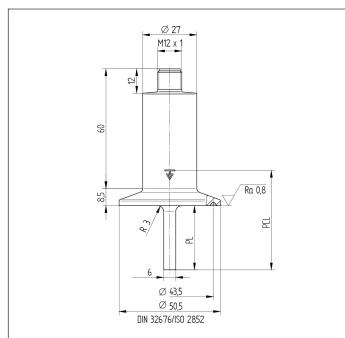
Sensor-specific data							
Measuring Range	10400 cm/s						
Temperature of the medium, flow measurement	0125 °C**						
Temperature of the medium, temperature	-25150 °C						
measurement Adjustable Range	10400 cm/s						
Medium	Water						
Measuring error	≤2 %						
Response time in case of temperature jump	10 s						
Environmental conditions							
Ambient temperature	-2580 °C						
Storage temperature	-2580 °C						
Mechanical Strength	25 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	Ш						
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: 50,5 mm						
Process Connection Length (PCL)	49 mm						
Probe Length (PL)	32 mm						
Analog output flow							
Analog output temperature	Ŭ.						
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.

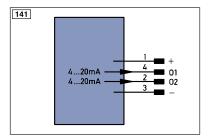
greatest possible flexibility is assured for installation in closed piping systems. The analysis module is integrated into the compact housing.

Complementary Products Software





All dimensions in mm (1 mm = 0.03937 Inch)



Legen	d					
-			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
۲	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)	ENARS422	Encoder A/Ā (TTL)	PK	Pink
ENg R5422	Encoder 0-pulse 0-0 (TTL)			Encoder B/B (TTL)	GNYE	Green/Yellow

