Flow Sensor 2 × Analog Output

FXFF148

Part Number



• 2 analog outputs: 4 ... 20 mA

ed into the compact housing.

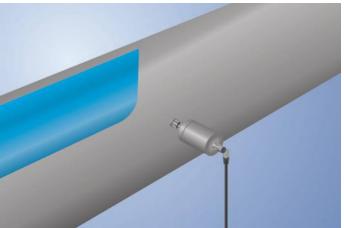
- A single sensor for flow and temperature •
- **FDA** compliant
- Measurement independent of flow direction and instillation position

weFlux² Flow Sensors with two analog outputs simulta-

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 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 |
| 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 | 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 | G 1/2" CIP-capable |
| Process Connection Length (PCL) | 75,5 mm |
| Probe Length (PL) | 32 mm |
| Analog output flow | |
| Analog output temperature | |
| Connection Diagram No. | 141 |
| Suitable Connection Technology No. | 21 |
| Suitable Mounting Technology No. | 906 |

* 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.

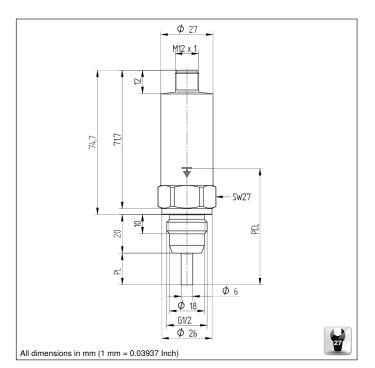


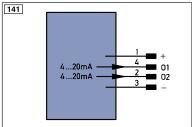
Complementary Products Software

weFlux² InoxSens

Fluid Sensors







| Legen | d | PŤ | Platinum measuring resistor | ENA | Encoder A |
|---------|--|----------|------------------------------|---|----------------------------------|
| + | Supply Voltage + | nc | not connected | ENB | Encoder B |
| - | Supply Voltage 0 V | | | AMIN | Digital output MIN |
| - | Supply Voltage (AC Voltage) | Ū | Test Input | | Digital output MAX |
| ~ | | w | Test Input inverted | Амах | Digital output OK |
| A Ā | Switching Output (NO) Switching Output (NC) | 0 | Trigger Input | Аок | Synchronization In |
| V | Contamination/Error Output (NO) | 0- | Analog Output | SY In | Synchronization OUT |
| | | | Ground for the Analog Output | | |
| V | | BZ | Block Discharge | OLT | Brightness output Maintenance |
| E | Input (analog or digital) | AMV | Valve Output | М | |
| 1 | Teach Input | a | 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 | | | Contactor Monitoring | WH | White |
| BI_D+/- | Ethernet Gigabit bidirect. data line (A-D) | ENARS422 | Encoder A/Ā (TTL) | PK | Pink |
| | Encoder 0-pulse 0-0 (TTL) | | Encoder B/B (TTL) | GNYE | Green/Yellow |

