

Flow Sensor

2 × Analog Output

FXFF114

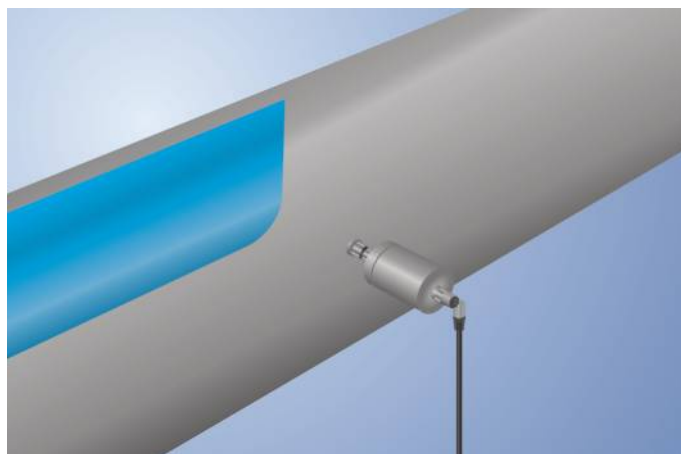
Part Number

weFlux² InoxSens



- 2 analog outputs: 4 ... 20 mA
- A single sensor for flow and temperature
- FDA compliant
- Measurement independent of flow direction and installation 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 greatest possible flexibility is assured for installation in closed piping systems. The analysis module is integrated into the compact housing.



Technical Data

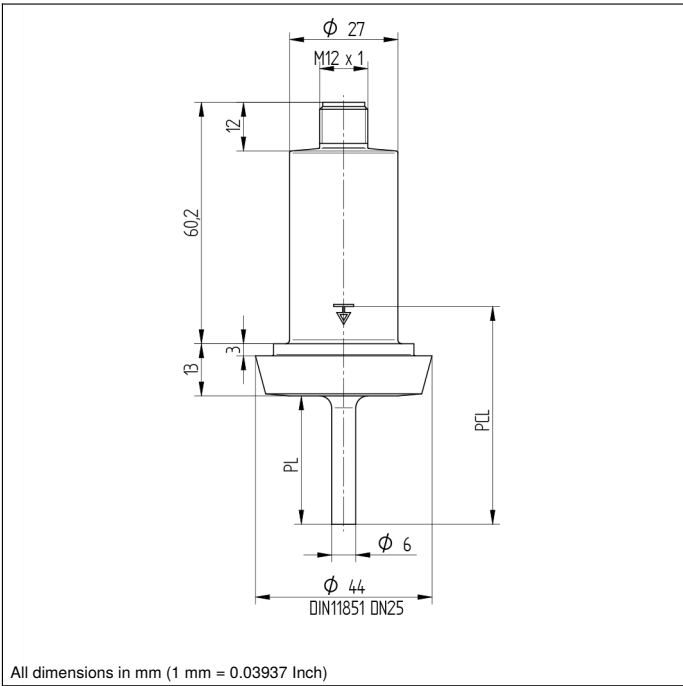
| Sensor-specific data | |
|--|--------------------|
| Measuring Range | 10...400 cm/s |
| Temperature of the medium, flow measurement | 0...125 °C** |
| Temperature of the medium, temperature measurement | -25...150 °C |
| Setting Range | 10...400 cm/s |
| Medium | Water |
| Measuring error (total) | ≤ 2 % |
| MTTFd (EN ISO 13849-1) | 1210,41 a |
| Response time in case of temperature jump | 10 s |
| Environmental conditions | |
| Ambient temperature | -25...80 °C |
| Storage temperature | -25...80 °C |
| Pressure Resistance | 40 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 (10...2000 Hz) |
| Electrical Data | |
| Supply Voltage | 12...32 V DC |
| Current Consumption (U _b = 24 V) | < 40 mA |
| Number of analog outputs | 2 |
| Analog Output | 4...20 mA |
| Signal source | Flow |
| Response Time | 1...5 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 | Dairy pipe DN25 |
| Process Connection Length (PCL) | 54 mm |
| Probe Length (PL) | 32 mm |
| Analog output flow | ● |
| Analog output temperature | ● |
| Connection Diagram No. | 141 |
| Suitable Connection Equipment No. | 2 |

* Certified by wenglor

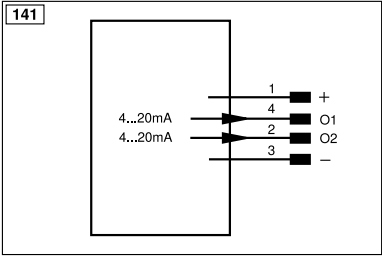
** The sensors were calibrated and specified for the medium water. Technically, the sensors are suitable for a medium temperature of up to -25 °C. To achieve a temperature below 0 °C, a different medium must be added to the water. This leads to a different measurement result, which is why an application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

Complementary Products

Software



All dimensions in mm (1 mm = 0.03937 Inch)



| Legend | | | |
|-----------|--|--|--------------------------------|
| + | Supply Voltage + | nc | Not connected |
| - | Supply Voltage 0 V | U | Test Input |
| ~ | Supply Voltage (AC Voltage) | Ü | Test Input inverted |
| A | Switching Output (NO) | W | Trigger Input |
| Ä | Switching Output (NC) | W- | Ground for the Trigger Input |
| V | Contamination/Error Output (NO) | O | Analog Output |
| Ȳ | Contamination/Error Output (NC) | O- | Ground for the Analog Output |
| E | Input (analog or digital) | BZ | Block Discharge |
| T | Teach Input | Amv | Valve Output |
| Z | Time Delay (activation) | a | Valve Control Output + |
| S | Shielding | b | Valve Control Output 0 V |
| RxD | Interface Receive Path | SY | Synchronization |
| TxD | Interface Send Path | SY- | Ground for the Synchronization |
| RDY | Ready | E+ | Receiver-Line |
| GND | Ground | S+ | Emitter-Line |
| CL | Clock | ± | Grounding |
| E/A | Output/Input programmable | SnR | Switching Distance Reduction |
| IO-Link | IO-Link | Rx+/- | Ethernet Receive Path |
| PoE | Power over Ethernet | Tx+/- | Ethernet Send Path |
| IN | Safety Input | Bus | Interfaces-Bus A(+)/B(-) |
| OSSD | Safety Output | La | Emitted Light disengageable |
| Signal | Signal Output | Mag | Magnet activation |
| BL_D+/- | Ethernet Gigabit bidirect. data line (A-D) | RES | Input confirmation |
| ENo RS422 | Encoder 0-pulse 0/Ü (TTL) | EDM | Contact Monitoring |
| PT | Platinum measuring resistor | ENARIS422 | Encoder A/Ä (TTL) |
| | | ENBRIS422 | Encoder B/ß (TTL) |
| | | ENA | Encoder A |
| | | ENB | Encoder B |
| | | AMIN | Digital output MIN |
| | | AMAX | Digital output MAX |
| | | AOK | Digital output OK |
| | | SY In | Synchronization In |
| | | SY OUT | Synchronization OUT |
| | | OLT | Brightness output |
| | | M | Maintenance |
| | | rsv | Reserved |
| | | Wire Colors according to DIN IEC 60757 | |
| | | BK | Black |
| | | BN | Brown |
| | | RD | Red |
| | | OG | Orange |
| | | YE | Yellow |
| | | GN | Green |
| | | BU | Blue |
| | | VT | Violet |
| | | GY | Grey |
| | | WH | White |
| | | PK | Pink |
| | | GNYE | Green/Yellow |