

# FLOW 38

## Industrial flow meter

It is an induction flow meter with an evaluation unit in full stainless steel construction with connection to sensor in a compact or separated design which is intended for technological processes and heavy industry as well. Thanks to its construction, it allows detecting flows within the range  $Q_{min}/Q_{max}$  up to 1:200 with discernment of direction. Comfortable control of the flow meter and its easy setting is ensured using three buttons. Its above standard version is also able to detect empty piping. The meter incorporates a resettable counter with adjustable resolution. The flow meter has a pulse output and a  $4 \div 20$  mA current loop. The meter can also communicate via RS485 interface with M-BUS, Modbus and other protocols. The display unit indicates the instantaneous rate of flow, flow volume, reverse volume, date and time if needed, failure duration records and in the case of malfunction also its description.

### Main merits

- High variability of construction
- High dynamic flow range
- High accuracy flow measurement over full-scale range
- Possibility to reset the auxiliary counter remotely
- Very firm structure made of high quality grade steel grade
- Possibility of data transmission via GSM
- Variable flow pulse number
- High abrasion resistance
- The flow sensor can be modified to very aggressive or alkaline fluids
- Flow monitoring in Flowswitch version

### Flow meter specification

|  |  |
|--|--|
| Diameter Nominal range                   | DN 6 ÷ DN 300  |
| Supply voltage                           | 24 V • 230 V • or according to customer<br>(after consulting with the manufacturer)        |
| Instrument power consumption             | 4.6 VA   |
| Maximum operating pressure [MPa]         | Up to 4.0 MPa  |
| Maximum operating temperature [°C]       | Up to 170 °C   |
| Temperature difference range             | 3 ÷ 168 °C   |
| Process connection                       | Sandwich • threaded • food industry screw fitting<br>(DIN 11851)                           |
| Construction                             | Compact • separated  |
| IP code                                  | IP 54 • IP 65 • IP 67  |
| Display                                  | LCD 2x16 characters  |
| Max. permitted ambient temperature       | 55 °C  |
| Outputs, communication                   | Pulse (passive) • current loop<br>4 ÷ 20 mA • RS 485 • M-Bus • Modbus<br>(or by agreement) |
| Input signals                            | Remote reset   |
| pulse output constant                    | Arbitrary, max. 400 Hz with adjustable<br>pulse width                                      |
| $Q_{min}/Q_{max}$ flow measurement range | 1:60 (standard) • 1:100 • 1:200  |
| Flow meter accuracy                      | Accuracy 0.5%; repeatability 0.2% (in basic<br>range)                                      |
| Temperature sensors                      | PT 500 (4-wire or 2-wire)  |

