FLOW 40 Flow meter for billing purposes

The FLOW 40 is intended for commercial metering of fluids delivered by means of which all fluids with conductivity higher than 5 µS/cm can be measured. It can be utilized mainly in water management, e.g. in sewage disposal plants, water works and sewerage systems. It can be utilized also in food industry (dairy works, soda works, breweries, etc.), chemical industry for various technological processes. It is noted for high reliability, accuracy and stability of metrology parameters. The flow meter has a pulse output and a 4 ÷ 20mA current loop. The meter can also communicate via RS485 interface with M-BUS, AMSET, J&C, C30 and other protocols. Extensive data archives are commonplace. The display unit indicates the instantaneous rate of flow, flow volume, reverse volume, date and time, monthly records, daily records, failure duration records and in the case of malfuntion also its description.

Main merits

- High accuracy flow measurement over full-scale range
- Long-time stability of metrology parameters
- Remote and local readout of all archived data
- Simple and trouble-free operation and maintenance
- Does not cause pressure losses
- High abrasion resistance
- The flow sensor can be modifed to very aggressive or alkaline fluids
- Data transmission via GSM

Flow meter specification

Diameter Nominal range	*DN 6 ÷ DN 300*
Supply voltage	*24 V • 230 V • or according to customer (after consulting with the manufacturer)*
Instrument power consumption	*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 (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	*2x Pulse (passive) • current loop 4 ÷ 20 mA • RS 485 • M-Bus • Amset and others*
Input signals	*2x pulse inputs for external meters (water meters, gas meters, and others)*
Pulse output constant	*arbitrary, max. 14 Hz (pulse width 80ms)*
Qmin/Qmax flow measurement range	*1:60 (standard range) • 1:200*
Flow meter accuracy	*Class 2 according to ČSN EN 1434*
Temperature sensors	*PT 500 (4-wire or 2-wire)*

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