



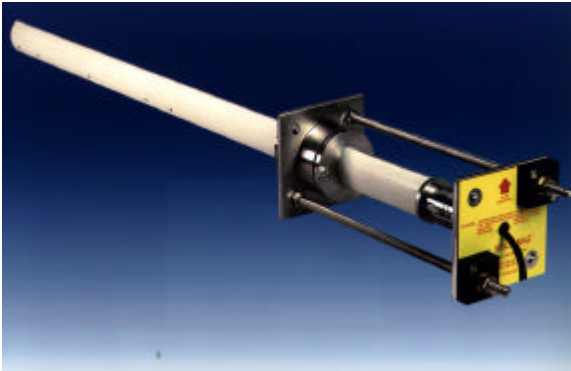
TEC-SPEC
MULTI-MAG™
Model 285
Insertable electromagnetic
averaging Magmeter



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Rev.: 01

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Velocity measurement

- Method: electromagnetic
- Size-Velocity range:
 - 2" sensor
 - 0 to 6 m/s up to DN500
 - 0 to 3 m/s up to DN1000
 - 0 to 1,5 m/s up to DN1500
 - 3" sensor
 - 0 to 6 m/s up to DN1000
 - 0 to 3 m/s up to DN2000please contact factory for velocities in excess of above specifications
- Accuracy: $\pm 1\%$ of reading (or better) \pm zero stability (from 0 to 3 m/s)
- Zero stability: ± 1 cm/s

Flow measurement

- Method:
Flow $Q = V \times A$ (mean velocity times area)
direct measurement of the mean velocity
input of area A (i.e. cross sectional pipe area)
- Linearity: 0,3% of range
- Repeatability: 0,2% of range

Transmitter

- Stored data is retained when power is removed
- System test and programmable functions
- Normal operation: display of flow totals and real time values

Enclosure

- Glass filled polypropylene with clear polycarbonate window
- Splash-proof IP65
- Dimensions: H 214mm x W 162 mm x D 69 mm
- Weight: 1,34 kg without sensor

Environmental

- Electronics: -40° to 50°C
 - Sensor: 0° to 60°C
- larger temperature range on request

Power supply

- Network: 220V/50Hz, 100 VA incl. heater
12 and 24 VDC on request

Operation

- Keypad: 4 membrane keys
- Menu: interactive menu driven programming

Outputs

Standard:

- Analog: 4 - 20 mA (max. load 650Ω), programmable flow range
- Frequency: programmable, flow proportional
- Contact closure:
programmable, flow proportional
specifications: 1 A @ 30 V or 0,1 A @ 220V
normally open or closed
contact time: ± 100 ms
- Alarm output: 2 separate programmable outputs

Display

- LCD field: backlit LCD display for flow rate, flow totals and velocity and display for engineering units (in programming mode)

Sensor and materials

- Sensor: Fiberglass with carbon electrodes exposed to the medium
DN 150 to DN 299: 3 pairs of electrodes
from DN 300: 5 pairs of electrodes
- Sensor cable: Polyurethane outer jacket
- Insertion hardware: Stainless steel exposed to flow
- Compression seal: Silicone rubber
- Pressure: 32 bar, maximum
- Mounting conditions: 16 bar at 1,5 m/s

Change without notice

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