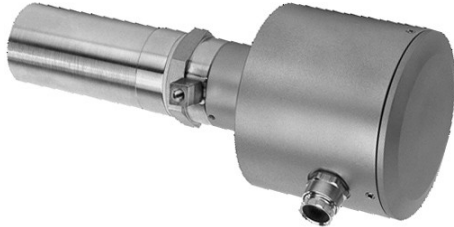


Product Information

Magnetic-Inductive Flow Probe FIS



- Measurement of flow in conductive fluids
- A measurement probe for a wide range of piping diameters
- High quality materials
- No moving parts
- Change the sensor without loss of media

Characteristics

The FIS magnetic-inductive flow probes are built into the piping by means of the supplied welded-on sleeves (DN 50..DN 400) or by means of the plastic fixing clip (DN 50..DN 150) . The complete measurement probe is removable without creating an opening to the medium, and so if a fault occurs, only the electronic part is replaced.

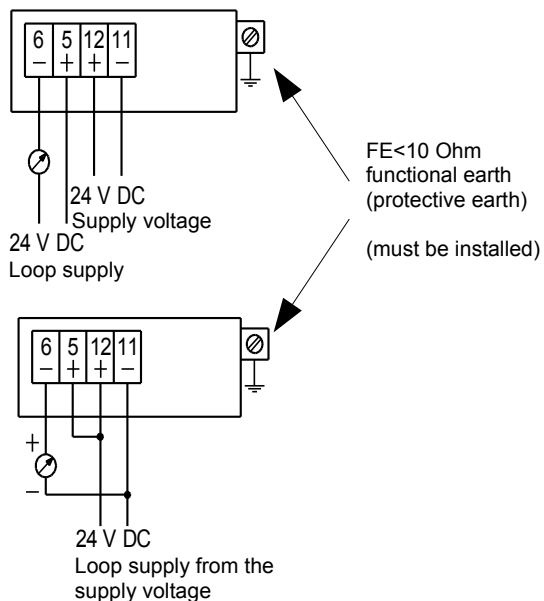
When an electric conductor moves at right angles to the magnetic field, the movement induces a voltage U in the conductor. With this measurement principle, the electrically conductive medium is the conductor. The magnetic field B is transverse to the direction of flow. The induced voltage U is directly proportional to the local flow speed v .

Technical data

Sensor	magnetic-inductive
Nominal width	DN 50..300 welded-on nozzle DN 50..150 tapping sleeve
Process connection	welded-on nozzle, tapping sleeve
Metering ranges	full scales 1..8 m/s in steps of 1 m/s
Measurement accuracy	±5 % of the measured value, (when calibrated on the spot ±2 % of the measured value), from 3 cm/s
Repeatability	±2 % of the measured value
Time constant	5 seconds fixed
Media	conductive, largely homogeneous fluids, pastes, and slurries, also having solids components
Electrical conductivity	min. 20 mS/cm
Medium temperature	-25..+150 °C
Ambient temperature	-25..+60 °C
Operating pressure	max. 25 bar for welded-on nozzle max. 10 bar for tapping sleeve

Materials	Probe Insulation Tapping sleeve Electronics housing	stainless steel 1.4435 ceramic (zirconium oxide) PP, 1.4305 stainless steel 1.4305 FKM and Klingerit
Supply voltage	24 V DC ±10 %	
Current consumption	50 mA (at 24 V DC and 20 °C)	
Output	4..20 mA (passive current output) load resistance max. 500 Ohm	
Ingress protection	IP 65 cable screw gland IP 67 round plug connector	
Weight	2,4 kg excluding tapping sleeve	
Conformity	CE	

Wiring



For model with round plug connector:

