

# MIE Magnetic-inductive flowmeter

with communication ETHERNET / MODBUS TCP

## Main advantages

- Cheaper solution without display
- Compact and separated version
- Wide range of process connections
- A lot of material choices of lining and electrodes
- IP68 protection in separate version with stainless steel sensor or housing
- Empty pipe detection
- Suitable for dosing applications
- **ETHERNET / MODBUS TCP communication**
- **Power supply over ETHERNET**

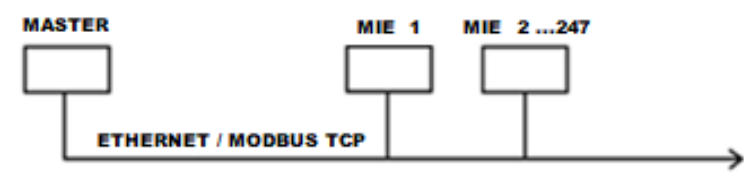
## Applications

- Water treatment
- Chemical industry
- Food industry
- Mechanical engineering
- Agriculture
- Power engineering

Compact version  
MIE - C



Separated version  
MIE - S



ISO 9001  Modbus

# Specifications

<b>Option</b>	compact version, separated version (sensor installed under ground or under liquid level, fixed cable, cable length according to the order - max. 50 m)
<b>Nominal sizes</b>	flange DN 10 ÷ 1000 mm, without flanges DN 10 ÷ 100 mm
<b>Insulation class of excitation coils</b>	class E
<b>Connection</b>	flanged DIN (ANSI, BS, JIS) / hygienic - food DIN 11 851
<b>Maximum pressure</b>	standard 1,6 MPa (0,6 / 1,0 / 2,5 / 4,0 MPa)
<b>Liner material</b>	hard + soft rubber DN 10 ÷ DN 1000 / teflon PTFE DN 10 ÷ DN 500
<b>Electrodes</b>	stainless steel 316Ti (Hastelloy / Tantal / Titan / Platinum)
<b>Outer casing and flanges</b>	carbon steel standard (stainless steel 304, 321)
<b>Flow tube</b>	stainless steel 321
<b>External coating</b>	acrymetal multi component lacquer / polished stainless steel
<b>Protection</b>	IP67-NEMA5 (compact version) / IP68-NEMA6 (separated version)
<b>Media temperature</b>	compact version: 0 ÷ 90 °C separated version: hard rubber (0 ÷ 90 °C), PTFE (-20 ÷ 130 °C)
<b>Accessories options</b>	sensor grounding ring for plastic pipe for DN 10 ÷ DN 40 sensor grounding electrode for DN 50 ÷ DN 1000
<b>Special option</b>	food industry stainless steel version – teflon lining, fitting DIN 11 851 flange version with stainless steel cover – teflon / rubber lining flange all-stainless steel version – teflon / rubber lining without flange version – teflon / rubber lining
<b>Flow direction</b>	both direction
<b>Suppression of small flows</b>	yes
<b>Empty pipe detection</b>	yes
<b>Electrical conductivity of medium</b>	≥5 µS/cm, for demineralized water ≥20 µS/cm
<b>Accuracy of measurement</b>	0,5 % of measured value + 2 mm/s (reference conditions)
<b>Communication port</b>	ETHERNET, 10Base-T resp. 100Base-TX, protocol MODBUS TCP (instantaneous reading, parameters setting and calibration)
<b>Power supply</b>	ETHERNET, passive, 9 ÷ 36 V DC / 10 W
<b>Main unit protection</b>	IP67 - NEMA5
<b>Ambient temperature</b>	-20 ÷ 60 °C