Heinrichs

KOBOLD Group

100 YEARS PROCESS-INSTRUMENTATION 1911-2011

We measure flow, mass, density, level and pressure

Magnetic-Inductive flowmeter for hazardous areas

- high accuracy: 0.3 % of measured value
- maintenance free
- no pressure drop
- numerous lining materials
- numerous electrode materials
- low-cost grounding electrode instead of earthing rings. Special materials also available e.g. Tantalum

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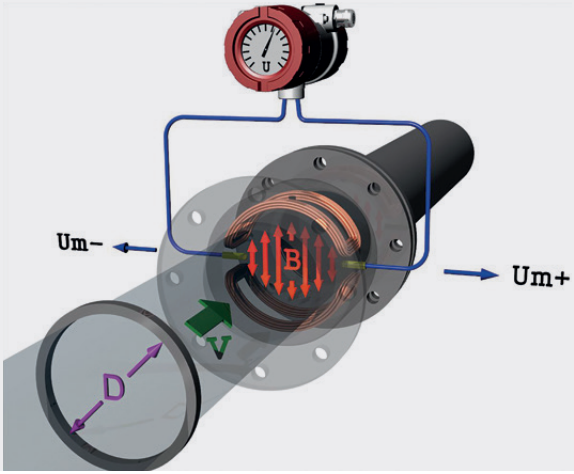
Magnetic-inductive flowmeter EPX/UMF3

Measuring principle



An electrically conductive medium flowing through an orientated magnetic field, in accordance to Faraday's law of induction, will induce a voltage proportional to the mean flow velocity rate and hence the volumetric flow.

This principle allows high accuracy and is independent of the density and viscosity of the measured medium as well as creating no pressure drop.

Without moving parts this system is maintenance free and thus perfect for almost all conductive liquids.

Magnetic-Inductive flow sensor EPX

Compact version

The extremely durable INLINE magnetic-inductive-flowmeter EPX.

With numerous lining- and electrode-materials the EPX is an all-rounder for many applications in the fields of:

- Water / Wastewater
- Chemical- / Petrochemical industry
- Plant construction
- Power plants

Magnetic-Inductive
flowmeter EPX/UMF3

areas of application
hazardous areas, corrosive media

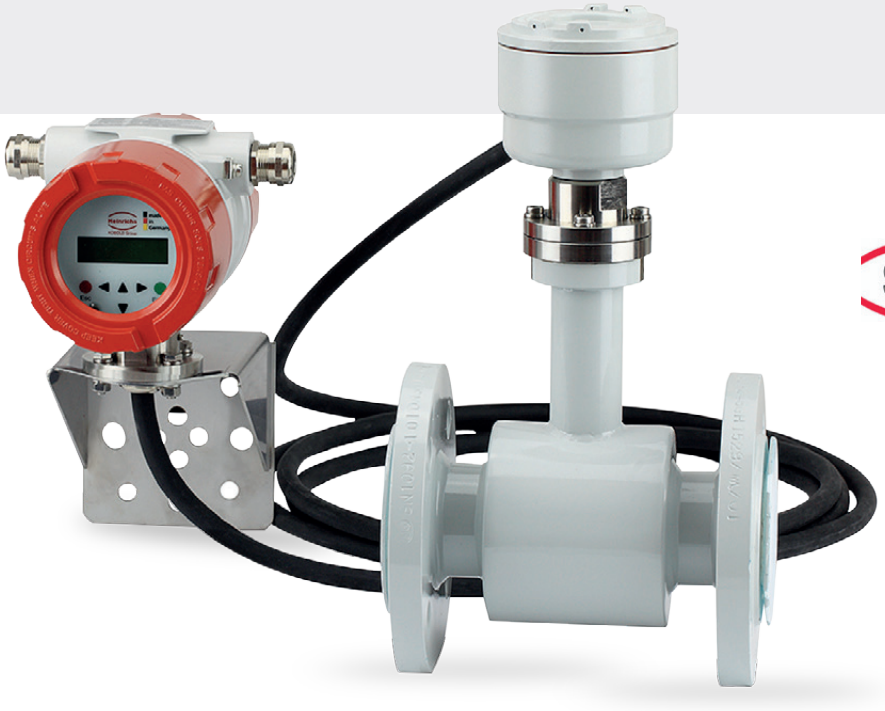
Available in nominal sizes from DN15 to DN300, the ATEX certified EPX sensor with transmitter UMF3 can be used in almost any environment.

Whether compact- or remote- mounted the EPX sensor with UMF3 transmitter is ideally suited for measurements in hazardous areas such as the chemical and petrochemical industry.

Optimize your processes with Heinrichs Magnetic flow meters and save time and money during the entire life cycle.

Lining materials such as PTFE in combination with highly resistant Hastelloy, platinum or tantalum electrodes allow the use of the device for liquids such as acids, alkalis and other mixtures.

Highest standards of workmanship and purity of materials enable a long service life and consistently high precision.
Especially in critical applications where abrasive or inhomogeneous process media is in use, is the magnetic - inductive flowmeter the appropriate choice, thereby delivering highly accurate measurements.



Magnetic-Inductive
Transmitter UMF3

Transmitter with rugged design
Ex d field housing

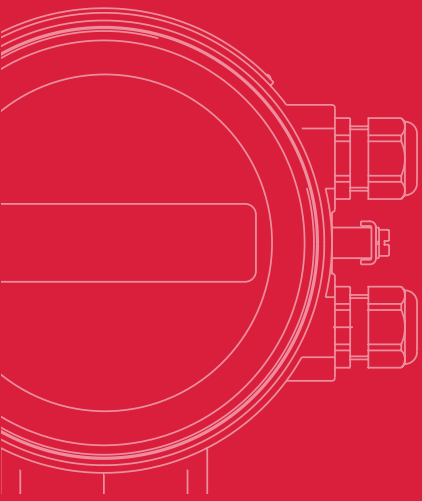
User-friendly, with a modern control concept and variable power supply.

- 6-key-operation for easy menu navigation
- plain text menu
- power supply
  - 24 V 4-wire
  - 90-253 VAC 50/60Hz
- 1 Analogue output + 1 pulse output + 1 status output
- HART - communication

Magnetic-Inductive
flowmeter EPX/UMF3

Performance data
at a glance

Nominal diameters	DN15..DN300 ½“ ... 12“
Accuracy	±0,3 % of measured value + 10^{-4} of end value
Conductivity	≥ 5µS, ≥ 20µS for demineralised water
Temperature range	
Hard rubber	-35 °C to +64 °C
PTFE / ECTFE	-35°C to +139 °C
Sensor material	Steel / Stainless steel
Electrodes	Stainless steel, Hastelloy, Tantalum, Titanium, Platinum
Transmitter	Painted aluminum housing
Power supply	24 VDC 90-253 VAC 50/60Hz
Communication	HART
Signal output	4-20 mA, pulse output, Status output
Explosion proof certificates	ATEX (Gas/Staub)
Sensor	Ex II 2G Ex e ia IIC Gb Ex II 2D Ex tb IIIC Db
Pressure rating	
	DIN EN1092-1
DN15-DN50	PN40
DN65-DN200	PN16
DN250-DN300	PN10
	ASME B16.5
½“ – 10“ class 150	15,9 bar (-29°C bis +38°C)
12“ class 150	10,3 bar (-29°C bis +38°C)



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