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ANDERSON NEGELE MAGNETIC-INDUCTIVE FLOW METER FMI

FMI

FMI-C



- Magnetic-Inductive
- Measuring Range 0.1...10 m/s
- Operating Pressure 0.1...11 bar absolute
- Approvals: FDA; 3-A

PRODUCT DESCRIPTION

The FMI Magnetic Inductive Flow Meter from Anderson-Negele is designed for highly accurate flow rate and volumetric measurement of fluids and pastes for customers from the Food- and Pharmaceutical industries. With an accuracy of ± 0.2% ± 1cm, the FMI exceeds the high expectations of the food and beverage industries as well as with product life span and cleaning; the FMI is also low maintenance and is available with all necessary certification for food and pharmaceutical applications.

With non-contact optical programming keys, the larger housing doesn't need to be opened for programming; ensuring water ingress is reduced to a minimum. The FMI also has a larger and clearer display than the FMQ flow meter for clearer visibility.

The precise degree of accuracy at low & high flow rates permits the FMI to be used in applications ranging from dosing systems to pharmaceutical filling systems. As with all magnetic inductive flow meters, the media has to have a conductivity of 5µS/cm and can also be used to monitor media with < 5 % solid particle content (where the media has the same level of conductivity).

The sensor is made entirely of 316 stainless steel, with all of the media contacting materials being FDA approved. The FMI is suitable for CIP-/SIP-cleaning up to max. 130 °C (up to 30 minutes) and also has an automatic empty pipe detection, to protect other components in your system from dry running damage. With a simple user interface that doesn't need the housing opening to adjust the parameters, moisture ingress, care and maintenance are all minimised. This is accompanied by a vacuum tight metering tube that is rigid, even at high temperatures and is also piggable.

Application Examples:

- Magnetic-inductive flow meter for the measurement of flow rate and volume in food and pharmaceutical applications
- Suitable for liquids, mash and pastes with a minimum conductivity of 5µS/cm
- Precise measurement of media containing solids (< 5 % solid particle content)
- Measurement range from 30 l/h to 640 000 l/h
- Suitable for dosing and filling applications
- DN10-DN150 sizes available
- Optional surface finish on metal process connection Ra ≤ 0.4µm (Pharmaceutical)
- FDA Certified, 3-A conformity for version with process connection SS, TC and HH

TECHNICAL DATA

Approvals	3-A, FDA
Area of apllication	Food, Pharma

IP class	IP65
Material display	PMMA
Material electrode	Stainless steel 316L
Material of connection	Stainless steel 316L
Material of seals	EPDM food approved
Material of sensor housing	Stainless steel AISI 304
Material of wetted parts	PFA
Pressure range max	11 bar
Pressure range min	-0.1 bar
Supply voltage ac max	240 V AC
Supply voltage ac min	100 V AC
Supply voltage dc max	32 V DC
Supply voltage dc min	9 V DC
Temperature ambient from	-20 °C
Temperature ambient to	55 °C
Temperature of media from	0 °C
Temperature of media to	100 °C