

## ANDERSON NEGELE MAGNETIC-INDUCTIVE FLOW METER FMQ

FMQ

FMQ

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



### PRODUCT DESCRIPTION

The FMQ Magnetic Inductive Flow Meter from Anderson-Negele is ideal for flow rate and volumetric measurement of fluids and pastes for customers from the Food- and Pharmaceutical industries. Meeting the high expectations of these industries with regard to accuracy, life span and cleaning, the FMQ is also low maintenance and is available with all necessary certification.

The precise degree of accuracy at low flow rates permits the FMQ to be used in dosing and filling systems, where the media has a conductivity of 5  $\mu\text{S}/\text{cm}$  and can also be used to monitor media with a < 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 FMQ 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 5  $\mu\text{S}/\text{cm}$
- 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  $R_a \leq 0.4 \mu\text{m}$  (Pharma)
- FDA Certified

Please refer to the image below for ordering information.

Main application area: Food | Material: 1.4404

FMQ Magnetic-Inductive Flow Meter

Nominal diameter/Size

010 (10 mm)  
015 (15 mm)  
025 (25 mm)  
032 (32 mm)  
040 (40 mm)  
050 (50 mm)  
065 (65 mm)  
080 (80 mm)  
100 (100 mm)  
125 (125 mm)  
150 (150 mm)

Certifications

S (none)  
P (with 3.1 certificate)

Display

L (Optical LED status light)  
D (Graphical Display)

Electrical connection

X (M12 plug, plastic, 4-pin, without switch input)  
M (M12 plug, 1.4305, 5-pin, with switch input)

FMQ / 010 / P / L / X

TECHNICAL DATA

|                            |                          |
|----------------------------|--------------------------|
| Approvals                  | FDA                      |
| Area of application        | Food, Pharma             |
| IP class                   | IP67                     |
| 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                      |
| Temperature ambient from   | -25 °C                   |
| Temperature ambient to     | 60 °C                    |
| Temperature of media from  | 0 °C                     |
| Temperature of media to    | 100 °C                   |