Electromagnetic Flow Meter

MiM900

WATER & WASTE WATER **MIM900**

The Product

MiM900 is a flow measuring system designed to cater to the waste water and water flow measurement fields. These flowmeters work on standard AC or DC power supply.
They are available from size 10mm-3030mm diameter.
Faraday's law of electromagnetic induction is the principle of operation. Robust design and no moving parts provide absolutely great performance for more than 10 years. The flow meter has a specialty of 'zero' pressure loss and can measure flow 'zero' flow reading.

Features

- Works on AC OR DC power
- Ideal for simple measuring tasks - current output for displaying the current flow and totaliser for cumulative volume reading
- Guaranteed safety of application **'MiM900'** offers all basic functions to guarantee very high reliability and measured value stability
- Optimum process control based on an accuracy of + 0.5%
- Installed in the most difficult of conditions like permanently under water: The sensor can be installed in separate configuration and is available with IP 68 degree of protection.
- Service-friendly - functional design makes maintenance work easier – Various communication protocol options provide support right down to device verification without the need for sensor removal
- Upgraded version of analog

Applications

- Raw Water (Prior to treatment)
- Pure Water (Treated)
- Waste water
- Sewage sludge

General Specifications

- Nominal diameter: 3/8"NB – 120"NB (10mm-3030mm)
- Maximum fluid temperature:
  Neoprene/Polymer Rubber: 80 °C
  Ebonite/Hard Natural Rubber: 80 °C
  Polyurethane: 60 °C
- DC Power supply: 12 V/ 24 V
- Power Consumption: <15W
- Battery Type: SMF / Li-ion / SLA /Gel etc.
- Battery life: 2 yr – 10 Yr depending upon type
- Battery Charging interval: Min.1 month to 2 yr. Depending on type of battery
- Battery Charger System:
  Ac powered/Solar powered
- Guarantee: 1 yr – 5 yr depending upon type of battery and order terms.

Technical Specifications

Media Pressure:
3/8"(10mm)– 3"(80mm): PN40
4"(100mm)– 8"(200mm): PN16
10"(250mm)– 24"(600mm): PN10
24"(600mm) and above: Specify

Standard Materials *

Liner: Neoprene /Hard Rubber /PU/PTFE
Electrode: SS 316
Pipe: SS 304 non-magnetic
Flange: Carbon steel
Coil housing: CS (Epoxy painted)
Transmitter: Cast aluminum (LM25)
Process Connection: Flanged
IS / DIN / ANSI / specify any other

FLOW TRANSMITTER / CONVERTER

Power Supply*:
110/230Vac, 50/60Hz OR
12 V /24 V DC, 15 VA approx.
Signal output*:
0/4-20 mADC (isolated), 20VA compliance
Time constant:
4.5S Fix/1-20S adjustable, optional

Pulse output:
a. Output to drive external electromagnetic counter of 12 V/24 V DC directly, 10-18000 pulse/hour
b. Open collector output (max 40 V)
0-500 Hz/1 KHz/10 (open collector)
5 V or 15 V

Local display:
3½ digit LCD indicator / 6or 8 digit totalizer (optional) in engineering Units

Ambient Temperature
0-60°C
Ingress protection:
IP 65 standard, IP 67 / IP 68 on request

Flow velocity range:
0.5 m/s to 10 m/s (full scale)

ACCURACY: AT REFERENCE CONDITION
±0.5% of flow rate
Flow between 20%-100%:
±1% of actual flow
Flow between 0- 20%:
±0.2% of full scale
(at normal condition)

Microprocessor Based Converter
A. Without communication
B. With communication
RS232/RS485/Modem/any other
*** Consult factory for other options!!!**

Ordering Code

A	**Power Supply**	01: V ac, Specify (230V) 02: V dc, Specify (24V) 03: Any Other
B	**Flow Meter Size mm (inch)**	01: 10 (3/8") 02: 15 (1/2") 03: 20 (3/4") 04: 25 (1") 05: 32 (1 ¼") 06: 40 (1 ½") 07: 50 (2") 08: 65 (2 ½") 09: 80 (3") 10: 100 (4") 11: 125 (5") 12: 150 (6") 13: 200 (8") 14: 250 (10") 15: 300 (12") 16: 400 (16") 17: 450 (18") 18: 500 (20") 19: 600 (24") 20: 700 (28") 21: 800 (32") 22: 900 (36") 23: 1000 (40") . . 33: 2800 (112") 34: 3000 (120")
C	**Liner**	01: Neoprene / HR 02: PTFE/PFA 03: PU 04: Any other
D	**Electrode**	01: SS 316 02: Any other
E	**Coil Housing**	01: C.S. Epoxy Painted 02: Any other
F	**Flange Standrad**	01: PN40 02: PN16 03: PN10 04: ANSI150 05: ANSI300 06:Any other
G	**Flange Material**	01: Carbon Steel 02: SS304 03: Any other
H	**Flow Transmitter**	01: Integral Analog 02: Remote Analog 03. Integral Microprocessor 04: Remote Microprocessor
I	**Display**	01: Local 3 ½ digit LCD 02: Remote Ind./Tot.
J	**Output**	01: 4 – 20 mADC 02: Pulsed (specify type)
K	**Communication**	01: No 02: Yes (specify Protocol)
L	**Battery Type**	Please specify
M	**Battery Charger**	Please Specify
N	**Remote Cable Length**	Please Specify

Continuous product development causes change in specifications without notice!!!

MiFLOW
www.miflowmeter.com
ISO9001:2008

MiFlowmeter Systems

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