



ELECTROMAGNETIC FLOW METER

SPECIFICATIONS:

Nominal diameter of the pipeline, DN: 15 to 80
 Accuracy in %: from \pm 0.5% / 1%
 Maximum pipeline pressure, MPA/bar: 2.5/25
 Minimum conductivity, μ S/cm: 5
 Fluid temperature range: - 10 to 80 DEG C
 Ambient temperature range: 5 to 50 DEG C
 Minimum straight pipe runs: 5 DN upstream and 2 DN downstream
 Protection: IP65
 Power supply, 24 VDC/230 VAC

OUTPUT:

- Pulse output; logical and digital
- 4 to 20 mA output
- Alarm output (high or low)
- RS-485 interface (Modbus).



Working Principle:

The electromagnetic flow meter uses Faraday's Law of electromagnetic induction to measure the process flow. When an electrically conductive fluid flows in the pipe, an electrode voltage E is induced between a pair of electrodes placed at right angles to the direction of magnetic field.

Magnetic flow meter uses:

- 1) Water treatment plants to measure treated and untreated sewage,
- 2) Process water,
- 3) Water, and chemicals,
- 4) Mining and mineral process industry applications include process water and process slurry flows and heavy media flows.

LINE SIZE	FLOW RATE (M3/HR)
DN 15	0.1 - 4
DN 20	0.2 - 8
DN 25	0.3 - 10
DN 32	0.5 - 15
DN 40	0.5 - 20
DN 50	1 - 30
DN 63	1.5 - 50
DN 80	2 - 80
DN 100	3 - 100
DN 150	7 - 200
DN 200	12 - 300
DN 250	20 - 500
DN 300	30 - 800
DN 350	40 - 1000
DN 400	50 - 1200
DN 450	60 - 1400
DN 500	80 - 1500
ABOVE DN 500 ON REQUEST	

Features and options:

- Power supply: Battery operated 24VDC / 230VAC
- Available in sizes from DN 15 to 1000 mm
- High grade stainless steel, titanium, or tantalum measuring electrodes;
- Easy commissioning, automatic uploading of calibration values and settings
- High accuracy and stability of measurement;
- High resistance to external action;
- Connection type - waffle (DN 10, 15 mm), flanged (DN 20-1000 mm),
- Full pipe detection;
- Bidirectional flow measurement;
- Suitable for mounting on polymer pipes;
- Graphic backlit LCD Display, Inbuilt and remote Display option

ORDERING EXAMPLE:

NI-EMF-DN50