

M-910E *Electromagnetic Flowmeter*



Pipe mechanical dimensions

Diameter DN [mm]	Length [mm]
10	150
15 - 80	200
100 - 125	250
150	300
200	350
250	450
300	500
350	550
400 - 600	600
700	700
800	800

Main Features:

- Range of diameter 10 to 800 mm
- Compact version IP67, remote version sensor IP68
- Mounting of electronic unit in two work planes
- Power supply voltage selectable 115/230 VAC or 24VACDC, 50/60 Hz
- Non-touch basic manual control with magnetic pointer
- 2 programmable digital outputs, analog output 4-20mA
- Pipe self diagnostic

Application:

- Water and wastewater flowrate and total volume measuring
- Chemical industry (acids, alkaline solutions)



Technical data

Nominal size	DN10 to DN800
Nominal pressure	PN10 to PN40 (depending on diameter)
Flow range	0.1 to 10 m/s (0.02 to 5000 l/s)
Accuracy	0.5 % (0.5 to 10 m/s) of reading value 1 % (0.1 to 0.5 m/s) of reading value
Maximum media temperature	70°C (158°F) for rubber liner 130°C (266°F) for PTFE liner in remote version
Ambient temperature	-20 to 60 °C (-4 to 140°F)
Power supply	<ul style="list-style-type: none"> • 115/230V (+10%, -15%), 50/60Hz, selectable • 12V, 24V, 48V DC/50/60Hz as option
Power consumption	10 VA
Liner	<ul style="list-style-type: none"> • hard rubber • PTFE
Electrodes	<ul style="list-style-type: none"> • CrNi (stainless) steel 1.4571 • Hastelloy C276 • Tantalum
Measuring tube	Stainless steel 1.4201, dimensions according to DIN 17457
Flange	Steel 1.0402 or higher Dimensions according to EN1092, DIN2501 (BS 4504), ANSI B16.5, Sanitary (DIN11851 or Tri Clamp), flangeless wafer style
Protection category	<ul style="list-style-type: none"> • Compact version: IP67 • Remote version: sensor IP68, converter IP65 – optionally IP67
Outputs	<ul style="list-style-type: none"> • Frequency 0 to 12 kHz with programmable flowrate and function • Pulse 0 to 50 Hz with programmable volume, function and pulse width • Current loop 4 to 20 mA with programmable flowrate and function
Communication	RS232
Displayed values	<ul style="list-style-type: none"> • Flowrate (m³/h, l/s, US.Gal/min, user) • Volume (m³, l, US.Gal, user) • Positive, total, negative and auxiliary (clearable, daily) volume
Control	<ul style="list-style-type: none"> • Magnetic pointer • RS232
Low-flow cutoff	Programmable value
Time constant	Settable in range 1 to 20 s
Other features	<ul style="list-style-type: none"> • Test of excitation coils, status of pipe line
Conformity requirements	<ul style="list-style-type: none"> • LVD (safety) according to EN 61010-1, EN61010-1/A2 • PED according to directive 97/23/EC • EMC according to EN 61000 part 3-2, 3-3, EN 61000 4-3, 4-4, 4-5, 4-6, 4-8, 4-11, EN 61000 part 6-2, EN 50081-1

Inductive flow meter M-910E is a device designed for measuring, indicating and storing flow and passed through volume data of conductive liquids. Flow meter M-910E records both positive and negative flow. As there are neither moving nor mechanical parts in the flow profile the device can be applied to measure extremely polluted liquids containing even solid pollution. The only limitation is that the device can be used solely with conductive liquids.

Range of applications. Inductive flow meter M-910E is designed to be used in the chemical industry, paper industry, waterworks maintenance, waste-water maintenance etc.

Features. Inductive flow meter M-910E is a highly accurate and stable device. The construction of the M-910E indicator uses components with a long-term time and temperature stability. Configuration data is backed up and can be recovered after a power failure. The back-up structure enables data recovery in case of a partial loss of data (as a result of e.g. high level electrostatic discharge or high noise of power supplying). Internal CPU provides all functions usually built in electronic flow meters, incl. low flow rate correction, frequency response setting, bandwidth of sensitivity setting at low flow rates, etc.

Inputs / Outputs. Flow meter M-910E is equipped with four isolated outputs as standard. Digital outputs (frequency and pulse) are user configurable. Current output 4-20 mA can be used as passive or active type. For communication is available RS232 output.