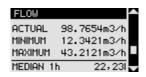


M921 Electromagnetic Flow Meter

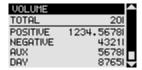


- Durable aluminium housing
- Quick installation, simple configuration
- Graphic display with backlight, 6-key keyboard
- Flow measurement: actual, minimum, maximum
- Volume measurement: total, positive, negative, daily, auxiliary
- Datalogger with memory for ca. 900000 records.
- Inputs/outputs: USB/RS232, RS485, 4-20mA current loop, Frequency, Pulse, Status (relay), PLC digital input

Flow overview



Volume overview



M921 Electromagnetic flowmeter is a device designed to measure, indicate and store flow and passed through volume data of conductive liquids. Flow meter 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.

Connection to and from inputs and outputs are provided via pluggable terminal blocks to ensure easy installation. Inputs and outputs are protected from common cases of misuse (overcurrent, overvoltage, ESD) ensuring high device reliability.

M921 flowmeter is ideal for applications in chemical, pharmaceutical or food industry. Providing wide range of outputs, the flowmeter can be used in other areas such as paper, water, waste-water processing, and etc.

For pricing or any further information, please contact Omni Instruments Ltd.



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Technical data

Nominal size	DN15 to DN800
Nominal pressure	PN10 to PN40
Flow range	0.03 to 12 m/s (0.01 to 6000 l/s)
Accuracy	• 0.25 % (0.5 to 12 m/s) of reading value
-	0.003 m/s (0.03 to 0.5 m/s)
Maximum media	80°C (176°F) for rubber liner
temperature	150°C (302°F) for PTFE liner in remote version
Medium minimum electrical conductivity	\geq 5 μ S / cm
Ambient temperature	-20 to 70 °C (-4 to 140 °F)
Excitation coils temperature	-20 to 150 °C (-4 to 302 °F)
Power supply	85 V to 264 V AC (47-65 Hz) M921-Vxx0x
(nominal range, range,	• 12 V DC (9 V to 18 V DC) • M921-Vxx1x
flowmeter version)	• 24 V DC (18 V to 36 V DC) • M921-Vxx2x
	• 48 V DC (36 V to 75 V DC) • M921-Vxx3x
Power consumption	12 VA
Liner	 hard rubber PTFE
Floatradaa	PIFE CrNi stainless steel 1.4571
Electrodes	 Hastelloy C276
	Tantalum
Measuring tube	Stainless steel 1.4201, dimensions according to DIN 17457
Flange	Carbon steel 1.0402 or higher
	Dimensions according to DIN2501 (=EN1092=BS 4504), ANSI B16.5, JIS B2220, Sanitary DIN11851, flangeless wafer style
Protection category	Compact version: IP67
	Remote version: sensor IP68, converter IP65 (optionally IP67)
Outputs	Frequency 0 to 12 kHz with programmable flowrate and function
	Pulse 0 to 200 Hz with programmable volume, function and pulse width Status (relay) autout 110//14/20// with programmable function
	 Status (relay) output 110V/1A/30W with programmable function Current loop 4 to 20 mA with programmable flowrate and function,
	error/alarm function.
Input	PLC digital input with programmable function
Communication	USB/RS232, RS485 (Modbus)
Displayed values	Flowrate (m3/h, I/s, US.Gal/min, Imperial.Gal/min, user)
	Volume (m3, I, US.Gal, Imperial.Gal, user)
	Positive, total, negative and auxiliary (clearable), daily volume
Control	Keyboard with 6 buttons
	USB/RS232 and RS485
Other features	Test of: excitation coils, electronic unit
	Diagnostic of internal temperature and power supply voltages
	Real time clock with maintenance-free backup power source
	Empty pipe indication Details grave 000000 records (new processes)
	Datalogger 900000 records (programmable sample rate) Degistration of min and may flourate including data and time
	 Registration of min. and max. flowrate including date and time Additional wall mounting options (DIN rails, bolted in)

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