MAG 900 SPECIFICATION





Compact (C) version

Inductive flowmeter MAG 910/900 is an instrument designed for measuring and indicating flow and total volume of conductive liquids. The flowmeter MAG 910/900 records both positive and negative flows. As there are no moving parts in the flow profile the device can be used to measure extremely dirty liquids containing solids. The flowmeter is for use with conductive liquids only.

Range of applications. The inductive flow-meter MAG 910/900 has been designed for use in all process industries including chemical, water and wastewater.

Features. The inductive flowmeter MAG 910/900 is a highly accurate and stable device. The construction of the MAG 910/900 indicator uses components with 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 noisy power supplies). The internal CPU provides all functions usually built in electronic flowmeters, incl. low flow rate correction, frequency response setting, bandwidth of sensitivity setting at low flow rates, etc.

Inputs / Outputs. Flowmeter MAG 910 is equipped with six isolated outputs and one isolated input as standard. Digital outputs (frequency, pulse and relays) and input are user configurable. Current output 4-20 mA can be used as passive or active type. RS232 and RS485 outputs are available for communication.

Transmitter Specification

Mag900

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Min. Media electrical conductivity	≥5 µS/cm / ≥20 µS/cm for demineralised water	
Flow range	0.1 to 10 m/s	
Accuracy	0.5 % (0.5 to 10 m/s) of reading value	
	1% (0.1 to 0.5 m/s) of reading value	
Power supply	230 / 115 VAC (+10%, -20%), 50 / 60 Hz	
	12, 24, 48 V AC/DC (+10%, -15%)	
Power consumption	8 VA	
Outputs	Frequency 0 to 12 kHz with programmable	
	flowrate and function	
	Pulse 0 to 50 Hz with programmable	
	volume, function and pulse width	
	• Relay contacts 100V/0.5A with programmable	
	function (as option)	
	Current 4 to 20 mA with programmable	
	flowrate and function Max 500 Ω	
Input	Not available on Mag900	
Communication	RS232	
Displayed values	• Flowrate (m³/h, l/s)	
	• Volume (m³, l)	
	Positive,negative and total volume	
Control	RS232	
Low flow cut-off	Fixed value	
Time delay	Fixed value	
Electronics Protection	IP65 / Nema 4	
Weight of electronics	2 kg	
Dimensions of electronics	160 x 160 x 91 mm	
Housing material	Die Cast Aluminium	
Display	LCD Alphanumeric	
Flow Direction	Bi-directional measurement	
Other features	Not available on Mag900	
Diagnostics	Not available on Mag900	
Real time	Not available on Mag900	
Datalogger	Not available on Mag900	
Control principle	Pulsed DC from transmitter	
Hazardous Area Approval	Not available on Mag900	
Measurement Filtration	Multi-mode adjustment	
Real time	Clock and calender with back up	
Cable terminals	3 pieces PG11	

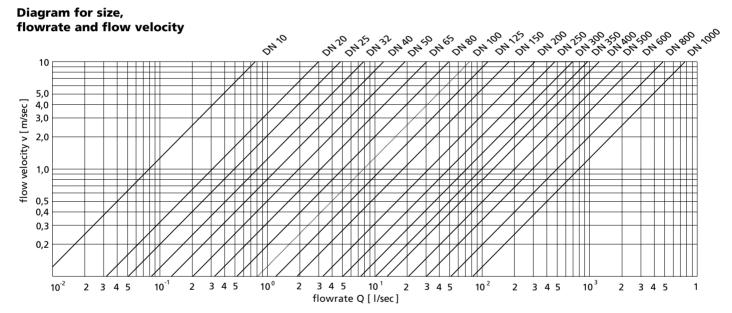
Sensor Specification

Flange	Steel 1.0402 or higher	
	Dimensions according to DIN 2501 (BS 4504),	
	ANSI B16.5	
Nominal size	10 800 mm	
Maximum nominal pressure	1,0 MPa - 2,5 MPa (10,16,25 bar)	
Max. media temperature	70°C (158°F) for Hard rubber liner	
·	130°C (266°F) for PTFE liner in remote version	
Ambient temperature	-5 to 60°C (23 to 140°F)	
Sensor Protection	Standard IP65 / Nema 4, (IP67 / Nema 5)	
Liner	Hard rubber, PTFE	
Electrodes	CrNi steel 1.4571, Tantalum, Hastelloy C276	
Measuring tube	Stainless steel 1.4201, dimensions according	
_	to DIN 17457	
Accessories options	Earthing rings for plastic and lined pipes	
Hazardous Area Approval	Not available on Mag900	
Coils	Class E	
Outer Casing	Carbon steel as standard	
External Coating	Lacquered finish (anticorrosive)	
Conformity requirements	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	

SENSOR SIZING AND INSTALLATION HYGIENIC AND WAFER SENSOR SPECIFICATION



Hygienic Sensor specification				
Fittings	10 mm to 100 mm			
_	1/2 inch to 4 inch			
	Sanitary fittings DIN 11 851			
Option	DIN Flanges			
Flow Tube material	Non Magnetic Stainless Steel			
Liner	Extruded White PTFE			
Electrodes	Stainless Steel			
Outer Casing	Stainless Steel			
Protection	Standard IP 67 / Nema 5, (IP 68 / Nema 6)			
Max. Temperature, and Pressure	356°F / 230 psig (150 degC / 16 bar)			
Wafer (W)				
DN	Wafer			
50 - 100	PN 10, 16			



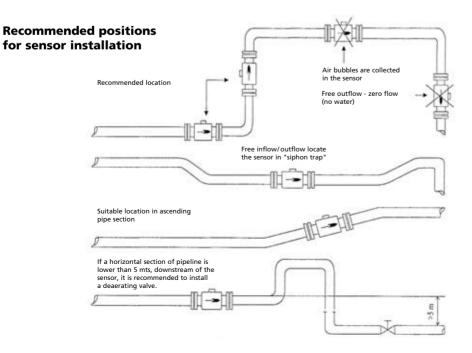


Table for 1 m/s flowrates				
DN	m³/h	I / min	l/s	
10	0,283	4,712	0,079	
20	1,131	18,85	0,314	
25	1,767	29,452	0,491	
32	2,895	48,255	0,804	
40	4,524	75,398	1,257	
50	7,069	117,81	1,964	
65	11,946	199,1	3,318	
80	18,096	301,59	5,027	
100	28,274	471,23	7,854	
125	44,179	736,31	12,272	
150	63,617	1060,3	17,671	
200	113,10	1885	31,42	
250	176,71	2945,2	49,087	
300	254,47	4241,2	70,686	
350	346,36	5772,7	96,211	
400	452,39	7539,8	125,66	
500	706,86	11781	196,35	
600	1017,9	16965	282,74	
800	1809,6	30159	502,65	
1000	2827,4	47124	785,4	