PLATON
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FLOW

Product Data Sheet **DS1601**

Electromagnetic Flowmeter

INDUCTIVE FLOW METER MAG 900

A flowmeter designed to measure, indicate and store both flow rate and total flow of conductive liquids. The MAG 900 records both positive and negative flows. As there are no moving mechanical parts in the flow profile, the device can be applied to measure dirty liquids even with solid particles.

APPLICATIONS

Designed to be used in the chemical industry, water and waste-water industries and all process industries.

FEATURES

- Displays flow rate and total
- High and low alarms
- Bi-directional
- DN10 - DN1000, PN10 - PN25
- Accuracy ±0.5% of reading
- Frequency, pulse, curent outputs
- Infra-red RS232 communications port
- Configuration data is backed up

DIMENSIONS

Nominal diameter (mm)	Nominal Length DN LN (mm)
10 - 100	200
125 - 150	300
200 - 250	400
300 - 500	500
600	600
700	700
800	800
900	900
1000	1000

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TECHNICAL DETAILS

Flanged	DIN or BS
Nominal diameter DN	10 to 1000 mm
Nominal length	200 to 1000 mm
Nominal pressure	6, 10, 16, 25 bar
Flow rate range	0.1 to 10 m/s (0.008 to 7854 l/s)
Accuracy of reading	±0.5% (0.5-10 m/s) ±1.0% (0.1-0.5 m/s)
Ambient temperature	-5°C to +60°C
Electrical conductivity	≤ 5mS/cm minimum
Liquid temperature	60°C (compact version) 130°C (separate converter)
Power supply	230V / 115V (+10%, -20%) 50Hz / 60Hz 24V (+10%, -20%) 50Hz / 60Hz
Protection	IP65
Power consumption	8 VA max.
Infrared sensor (extra)	Option 90001
Adapter RS 232 (extra)	Option 90002
Analogue	4 - 20mA max. 400W
Liner	Rubber/ PTFE
Electrodes	Stainless Steel

FEATURES

The inductive flowmeter MAG 900 is a highly accurate and stable device. The construction uses components with a long-term time and temperature stability. Configuration data is v=backed up and can be recovered after a power failure. The back-up structure enables data recovery in case of partial loss of data (e.g. as a result of high level electrostatic charge or noisy power supply). Internal CPU provides all functions usually built in to electronic flow meters, including low flow rate correction, frequency resonse setting, bandwidth of sensitivity setting at low flow rates etc.

OUTPUTS

The MAG 900 is equipped with three standard isolated outputs: frequency output, pulse output and RS232 output. The user can configure both frequency and pulse output.

The RS232 outout is of an infrared type. Through this output the flowmeter periodically sends data containingthe reading and status. This option enables easy scanning of information from several flowmeters via a portable PC with infrared input.

The flowmeter can be equipped with standard current output 4-20mA. The output is galvanically separated and can be either active or passive type.

TABLE FOR 1M/S FLOW RATES

DN	m³/h	l/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	1885.0	31.420
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	11781.0	196.35
600	1017.9	16965.0	282.74
800	1809.6	30159.0	502.65
1000	2827.4	47124.0	785.40

Head Office: 2 Downgate Drive, Sheffield, S4 8BT, England
Tel: +44(0)114 244 2521 Fax: +44(0)114 243 4838

UKAS CALIBRATION 0043

Roxspur Measurement & Control Ltd

1-4 Campbell Court, Bramley, Tadley, Hampshire, RG26 5EG, England
Tel: +44(0)1256 884901 Fax: +44(0)1256 882986
email: sales@roxspur.com www.roxspur.com

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