

MAGI - INSERTION ELECTROMAGNETIC FLOW SENSOR

MAGI is an insertion probe that, through a wide range of couplings, can easily be installed on metal pipes or plastic material of a different diameter from 3" (DN80) to up 48"/72". It can operate with abrasive or solid particles in suspension liquids, as long as conductive and homogeneous. The models with isolation valve are recommended for use in pressurized pipelines where you can not stop the flow during operations of placing/replacing of the sensor, ideal for metering applications extemporaneous, diagnostic and research renouncing to invasive interventions such as cuts piping, welding, etc.

Applications:

- Wastewater Treatment
- Sourcing raw water
- Drinking water distribution and losses control
- Manufacturing and Process
- Water cooling
- Power Plants
- Flow control seawater in refineries



MAG115/215

Hot-tap

ELECTRONIC DISPLAY

Electronic display of instantaneous flow rate and total counting flow. Output 4/20 mA supply 24 ... 32Vdc or pulse output open collector climbing 0.1 sec with alarms

min or max

Power supply: 12...32Vdc (Option battery mod. MPC415)

Display: instantaneous flow rate 6 digits H 12 mm
total flow 8 digits H 8 mm

Pulses output: 0.1...9999999.9 unit/pulse configurable

Input Frequency: 1.0 ... 10000 Hz range

K factor: 0.001...99999.999 configurable

Temperature: 0...70°C

Protection: NEMA 4X



TECHNICAL SPECIFICATIONS

Velocity Range: 0.08 ... 6.09 m/s

Pipes: 3"...48" (option up to 72")

Calibration accuracy: +/- 1 % f.s.

Pressure: 13.8 bar max

Power supply: 12...25Vdc

Conductivity: 20 µS minimum

Output: 4/20 mA passive, adjustable

Material: S.S. 316 or Brass body, Hastelloy electrodes with head PVDF, aluminum enclosure

- Versions:
- MAGI101S = S.S.316L diameter 1 "1/2 - 3" to 10"
 - MAGI101B = BRASS diameter 1 "1/2 - 3" to 10"
 - MAGI201S = S.S. 316L diameter 1 "1/2 - 10" to 48"
 - MAGI201B = BRASS diameter 1 "1/2 - 10" to 48"
 - MAGI115S = S.S. 316L diameter 2 "with bronze isolation valve - 3" to 10"
 - MAGI115B = BRASS diameter 2 ", with bronze isolation valve - 3" to 10"
 - MAGI215S = S.S.316L diameter 2 ", with bronze isolation valve - 10" to 48"
 - MAGI215B = BRASS diameter 2 ", with bronze isolation valve - 10" to 48"

Display: compact, remote or wall mounting



SATEMA

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TECHNICAL SPECIFICATIONS

FLOW RANGES					
		MIN velocity 0.061 m/s		MAX velocity 6.1 m/s	
DN	Q	m3/min	m3/h	m3/min	m3/h
3"		0.02	1.20	1.67	100.20
4"		0.04	2.40	2.96	177.60
6"		0.09	5.40	6.67	400.20
8"		0.17	10.20	11.86	711.60
10"		0.26	15.60	18.53	1111.80
12"		0.37	22.20	26.69	1601.40
14"		0.51	30.60	36.72	2203.20
16"		0.66	39.60	47.44	2846.40
18"		0.84	50.40	60.05	3603.00
20"		1.04	62.40	74.13	4447.80
24"		1.5	90.00	106.75	6405.00
30"		2.34	140.40	166.8	10008.00
36"		3.36	201.60	240.19	14411.40
48"		5.98	358.80	427.01	25620.60

Mounting collar sensors: easy installation of insertion flow meters.



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