

# MAGS1

## Electromagnetic Flowmeter

### Unexpensive solution for application with existing PLC System with RS485 MODBUS RTU communication system

MAGS1 is a stand-alone version of flowmeter, which does not need a transmitter and can be operated on its own. If you need a low cost flowmeter without read out on display and outputs, this will be the right one!!

Arkon offer new electromagnetic flowmeter MAGS1 for applications where flowmeter is connected to a PLC on RS485 MODBUS RTU protocol.

That simple version is feed with 24VDC and has output/communication a standard RS485 line on MODBUS RTU protocol.

Power Supply	24VDC $\pm$ 10% @ 0.5A max
Communication	RS485 - MODBUS RTU
Min. Media Electrical conductivity	$\geq 5\mu\text{S/cm}$ $\geq 20\mu\text{S/cm}$ for demineralised water
Flow Range	0,1 to 10 m/s; 0,015- 10000 l/s
Accuracy	$\pm 0,2\%$ (0,5 to 10m/s) of actual value
Connection types	DIN & ANSI Flanged
Flange material	Steel 1.0036 or higher, Dimensions according to DIN EN 1092-1, ASME B 16.5, JIS B 2239
Nominal Size	25 - 250 mm (1"-10")
Maximum nominal pressure	PN 40/300 psi
Max. media temperature	70°C (158°F) for Hard Rubber liner, 130°C (266°F) for PTFE liner in remote version
Ambient temperature	- 20 to 60°C (-4 to 140°F)
Sensor protection	IP68(Nema 6), IP67(Nema 5)
Liner	Hard Rubber, PTFE other material on request
Electrodes	CrNi austenitic steel 1.4305 DIN 1013, other material on request
Measuring tube	Stainless steel 1.4301 dimensions according to DIN 17457
Outer casing	Carbon steel (1.0036) as standard
External coating	Lacquered finish (anticorrosive)
Accessories options	Earthing rings for plastic and lined pipes
Coils resistance	80 / 100 $\Omega$
Other features	Earthing through 3rd and 4th electrode Automatic electrode cleaning Empty pipe detection Auto-diagnostics Test of excitation coils Zero flow adjusting



#### Certification

CE: Conformity requirements

ČSN EN 61326-1:2006 + Rev. 1:2007

ČSN EN 61000-4-2 ed. 2:2009 (EN 61000-4-2:2009))

ČSN EN 61000-4-3 ed. 3:2006 + A1:2008 + Z1:2010 + A2:2011 (EN 61000-4-3:2006 + A1:2008 + IS1:2009 + A2:2010))

ČSN EN 61000-4-8 ed. 2:2010 (EN 61000-4-8:2010))

EN 55011:2009, clause 6.2.1.3 & clause 6.2.2.3 - Group 1, Class B device

ČSN EN 61326-1:2006 + Oprava 1:2007, clause 7.2 (EN 61326 1:2006, clause 7.2)