

MAGNUM EX

Magnetic Insertion Flowmeter
for hazardous locations

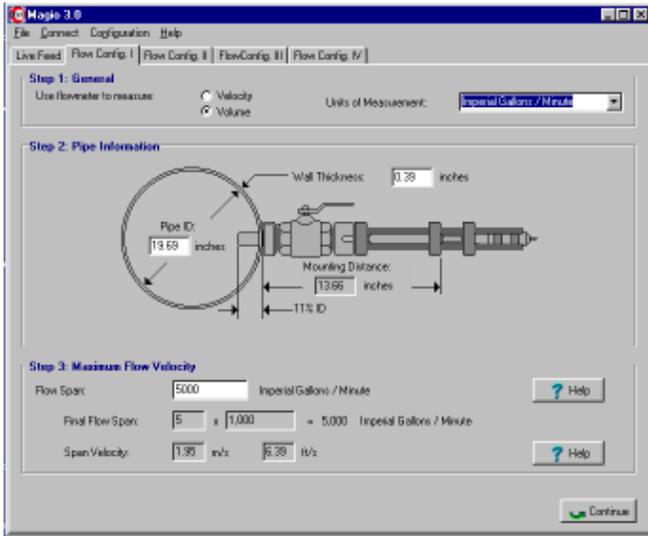
Magnum EX is a magnetic flowmeter for measuring the flow of conductive pipe-flows that are located within Class 1, Division 1 or equivalent hazardous locations.

The Magnum sensor uses a combination of explosion-proof and intrinsic safety technology to meet this requirement, while the transmitter is located outside the hazardous area.

Magnum EX can be set up for a variety of applications with a few clicks of a mouse from any PC running the Magio III interface software.



www.magmeter.com



Magnum is an entirely digital instrument. All internal functions of the flowmeter are controlled by software. Setup and configuration for applications are handled by the Magio 3.0 software interface, which runs on any Windows based PCs. Setup can be done in the field on a laptop or in the office at a desktop PC.

Once the setup is completed the instrument can be installed. The only requirements are cabling for power in (12 VDC) and signal out (4-20mA). This makes it ideally suited for SCADA type applications which may require numerous measurement points at remote locations. The Magnum EX also features optional hardware for data-logging.



MAGNUM EX

Class I, Division 1, Groups B, C and D

Sensor and Mounting

- | | | |
|----|------------------------|---|
| 01 | mounting | #150 flange or 2"NPT nipple |
| 02 | insertion mechanism | anodized aluminum |
| 03 | mounting flange/nipple | 316SS or Hastelloy |
| 04 | o-rings | Buna or Viton |
| 05 | lock nut | anodized aluminum |
| 06 | position nut | anodized aluminum |
| 07 | position ring | 316 SS |
| 08 | snap ring | spring steel |
| 09 | sensor type | cylindrical probe, ex-proof |
| 10 | sensor body | SS316 or Hastelloy |
| 11 | electrode type | conical protruding |
| 12 | electrode material. | Hastelloy |
| 13 | sensor tip | Kynar |
| 14 | grounding type | integral body |
| 15 | cable terminal housing | Adalet ex-proof housing |
| 16 | cabling and connectors | explosion proof |
| 16 | operating pressure | up to 150 psi |
| 17 | liquid | conductive |
| 18 | max. Velocity | unlimited |
| 19 | min. velocity | .25 inch/s |
| 20 | ambient temperature | up to 45C |
| 21 | process temperature | up to 80C |
| 22 | precision | 0.5% of velocity
at 100% of range
user selectable |
| 23 | line size | |
| 24 | line material | all types |
| 25 | repeatability | 99. 5% |

Transmitter

- | | | |
|----|------------------|----------------------------------|
| 26 | transmitter | micro-processor based |
| 27 | analog output | 0/4 to 20mA |
| 28 | impedance | 800 ohm |
| 29 | protection | isolated |
| 30 | pulsed output | pulse/unit |
| 31 | communication | RS 232 |
| 32 | indications | insertion depth |
| 33 | | reverse flow |
| 34 | user selectable | engineer units |
| 35 | | pipe dimension |
| 36 | | flow rate span |
| 37 | | auto ranging |
| 38 | | digital filtering |
| 39 | power supply | 12V DC |
| 40 | intrinsic safety | IS barrier for electrode circuit |



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