



CLOSED PIPE FLOW MEASUREMENT

FlowSys: Mag



MEASURING DATA



*Pipe mounted transmitter & display.
Remote display serving multiple meters*

Features:

- Full bore flow with negligible pressure drop
- Linear measuring principle
- Bi Directional measurement
- Independent of viscosity and density
- Locally logged & displayed data
- Selection of mounting options
- May be networked together
- Hard and soft rubber, and PTFE liners
- Very large size range

Benefits:

- Easy operation and programming
- Practically maintenance free
- No moving parts
- Allows measurement of high solids content liquids
- High accuracy, better than 0.25%
- Comprehensive batch control functions

Applications:

- Sludge transfer monitoring
- Crude sewage rising main monitoring
- Waste activated sludge control
- Septage receiving centre monitoring
- Potable water metering
- Food and Beverage process flow monitoring
- Chemical industry
- And many more



Waste water works installations

FlowSys: Mag is a high specification range of magnetic flow meters for measurement of conductive liquids in closed pipes. Sizes range from 3 – 2000 mm, and three liner materials are available. All MagFlux® flow sensors are tested and flow calibrated in a certified ISO 17025 test facility, and are issued with a fully traceable test certificate, recognised by flow inspectors. Unique features include logging and on board graphing as standard, and networking of multiple transmitters together to be viewed and logged in one location. The Magflux is compatible with other sensors in the range, including dissolved oxygen and suspended solids / turbidity / %DS.



System Specification

Operational Principle:	Magnetic induction
Range:	0 up to 40,715 m ³ /hr depending on pipe size
	Liquid Temp 20 150°C for PTFE lining
	10 80 °C for hard & soft rubber lining
	Ambient Temp 10 60 °C for compact converter
	10 – 80 °C for remote converter
Resolution:	dependant units selected
Repeatability:	Better than ± 0,25%
Accuracy:	Better than ± 0,25%
Response time:	Instant
Calibration Method:	precalibrated against gravimetric rig in Iso 17025 certified lab

Transmitter/Controller Specification

Mechanical Construction:	Dimensions (hwxwd)	
	Weight:	1 kg
	Materials:	glass reinforced polycarbonate
	Ambient conditions:	20 to +60° C (converter mounted on sensor) 20 to +80° C (converter remote mounted)
	Weather Protection:	IP 67 / NEMA 6
Outputs:	Display:	5 lineLCD(64x128 pixel),soft keys+graphics
	Current loop:	1 off 4-20 mA, galvanic isolated (max. 800Ω)
	Relay outputs:	1 off dry relay contacts (max. 60 VAC/0.5 A) 1 off optical coupler (max. 50 VAC/120 mA, 35Ω flow through resistance)
	Dig. Inputs:	1, max. 30VDC, <5VDC=0(low), >10VDC=1 (high), pulse length > 100 ms
	Data interface:	RS 485 for connection to Display Unit or PLC
Power requirements:	Supply voltage:	24 V AC, 50 / 60 Hz ± 10 % or 10 30 V DC or 230 / 115 V AC, 50 / 60 Hz ± 10 %
	Load:	10Watts max

Sensor assembly Specification

Mechanical Construction:	Housing:	Painted carbon or stainless steel
	Liner:	Hard rubber, soft rubber or PTFE
	Electrode:	Stainless steel 1.4571 (AISI 316). On order Hastelloy, titanium or platinum
	Mounting:	Flange or Wafer
	Size:	DN 15 1200, 1/2" 48", Dia 90 1510 mm, L 200 1200 mm
	Weight:	3.5 – 680 Kg

Ordering Information

Request data sheet: GB 3.05 MagFlux 0706.

Details of sizing and order code generation are given on this sheet. It is recommended that details of flow rates, medium and conditions, pipe size, flange requirements, ambient conditions, transmitter display configuration required are all relayed to Envitech Sales who will then convert into the correct order codes.

Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU
Tel: 02920 364252, Fax 02920 369876, E-mail: sales@envitech.co.uk

Note To End Users : These specifications are subject to change at any time without notice. Envitech Ltd takes no responsibility for the use of these figures. Please consult Envitech Ltd for the latest specifications before using them in tender submissions or third party quotes... Envitech Ltd reserves the right to change specifications without prior warning. All quoted figures are based on test conditions and are subject to variation due to site conditions.

www.envitech.co.uk