

EL 1222 Insertion Electromagnetic Flow Meter for Portable or Permanent Installation

Description

The EL 1222 is a compact insertion electromagnetic flow meter that can be used as a portable meter for temporary installation, or installed permanently in lines ranging in size from 2" to 104" in diameter.

The product's compact size and bidirectional measurement capabilities deliver excellent accuracy for customers that do not want to install a full-bore meter.

Features

- No moving parts
- "Hot tap" installation
- Suitable for line sizes from 2" to 104"
- Wide rangeability with a single unit
- No pressure drop
- Bidirectional capability
- Remote & integral versions available
- AC/DC & battery powered

Typical Applications

- Water network management
- Leak detection
- District metering
- Flow surveys
- Flow profiling
- Secondary standard / check meter

Model EL 1222 Electromagnetic Flow Meter

Specifications

Accuracy	±2.0% of reading plus zero stability
Zero Stability	±0.05% of full scale
Repeatability	±0.5%
Max Fluid Velocity	5 m/s
Tube Material	316 Stainless steel
Line Sizes	2" to 104"
Fitting	1" Female BSPP or NPT (supplied with weld nipple)
Electrode Material	316L Stainless steel
Max Temp Range	-40° C to +80° C Fluid -20° C to +60° C Ambient
Max Pressure	20bar (290 psi)
Max Cable Length	100 meters
Min Conductivity	5 µS/cm, 20 µS/cm for DI water
Rating	IP67 (IP68 to 10 meters available on request)
CE Declarations	EMC EN61010 LVD EN61326 IP EN60529



EL 1222 Ordering Information Interfaced to the MC 608A Transmitter

01-	101168	-			A	-			A
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Line Size	Code
2" to 24"	A
8" to 60"	B
18" to 104"	C

Integral or Remote	Code
Integral	A
Remote	C. Factory

Fitting	Code
BSPP	A
NPT	B

Transmitter & Power	Code
90-264VAC	A
24VAC-DC	B
90-264VAC HART	M

EL 1222 Electronics

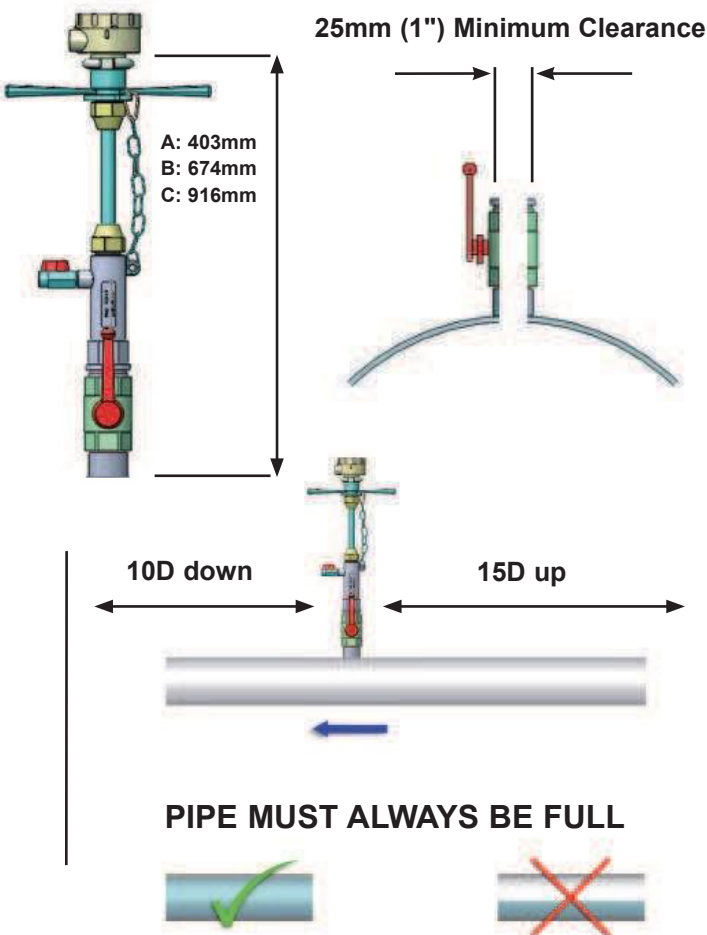
The EL 1222 interfaces to an integral or remote mounted MC 608A transmitter with backlit display. The system can be powered with 110/240AC or 24V DC.



MC 608A Series Features

- High end controller
- Bidirectional functionality
- AC and DC versions
- Internal data logging
- Low power consumption mode
- Large graphics display
- Digital outputs
- Analog outputs
- Alarm outputs
- Windows®-based programming tool

Typical Installation



Velocity vs. Flow Rate			
Pipe Diameter	0.5 m/s GPM	3.0 m/s GPM	5 m/s GPM
2"	17.36	104.19	173.65
4"	65.51	393.05	655.09
6"	148.37	890.21	1483.69
10"	402.97	2417.81	4029.69
14"	692.99	4157.94	6929.90
16"	903.06	5418.39	9030.64
20"	1421.59	8529.56	14215.94
24"	2057.26	12343.56	20572.60
26"	2560.96	15365.77	25609.61
30"	3436.25	20617.51	34362.51
40"	6104.72	36628.30	61047.16
50"	9636.70	57820.21	96367.02
60"	14066.29	84397.76	140662.93

*Contact FTI for flow ranges over 60" size.

EL 1222 Ordering Information Interfaced to the MC 406 Transmitter

01-	101168	-			A	-			5		N	
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Line Size	Code
2" to 24"	A
8" to 60"	B
18" to 104"	C

Outputs	Code
Standard pulse outputs only	2
Pulse outputs & 4-20mA ¹	4

Fitting	Code
BSPP	A
NPT	B

Mounting	Code
Integral horizontal	C
Integral vertical	V
Remote	S

Power Supply	Code
Battery powered (excluding batteries - ordered separately)	F
12-24VDC	A

Cable Length	Code
Integral	A
5M	B
10M	D
15M	E
20M	F
30M	G

Battery Packs for "F" Version (Ordered Separately)

Battery Pack Description	Model
Standard performance (up to 6 years)	EM-PB900018
High performance (up to 10 years)	EM-PB900013

1. Only available when powered with 12-24VDC

MC 406 Electronics

The MC 406 transmitter is a high-efficiency, technologically advanced battery-powered electronic converter, combining high performance and low cost of ownership. Up to 10 years of battery life allows for maintenance-free operation. The battery pack can be easily replaced in the field, and all data is automatically stored in the internal EEPROM memory, ensuring that no data will be lost.



MC 406 shown in vertical orientation



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