

# 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 60" in diameter.

The products compact size and bi-directional measurement capabilities delivers 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° F to 176° F Integral/Remote -40° C to 80°C Integral/Remote
Max Pressure	20bar (290 psi)
Max Cable Length	100 meters
Min Conductivity	5 µS/cm, 20 µS/cm for DI water
Rating	IP 67 (IP 68 to 10 meters available on request)
CE Declaration	EN 61326:1997 to EN 61326/A3:2003



## EL 1222 Ordering Information

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

Fitting	Code
BSPP	A
NPT	B

Integral or Remote	Code
Integral	A
Remote	C. Factory

Transmitter & Power	Code
MC608A 90-264VAC	A
MC608A 24VAC-DC	B
MC608B Battery Powered	L

## EL 1222 Electronics

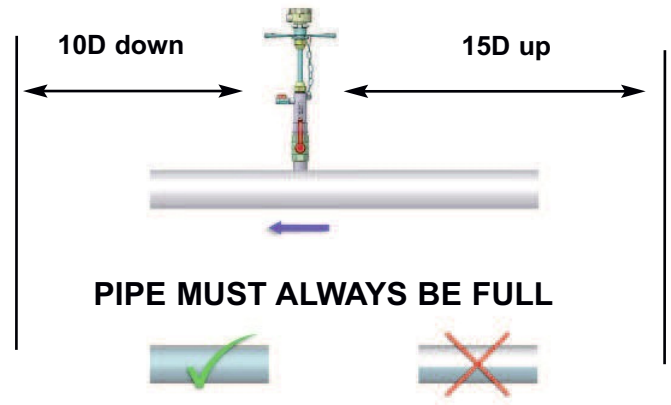
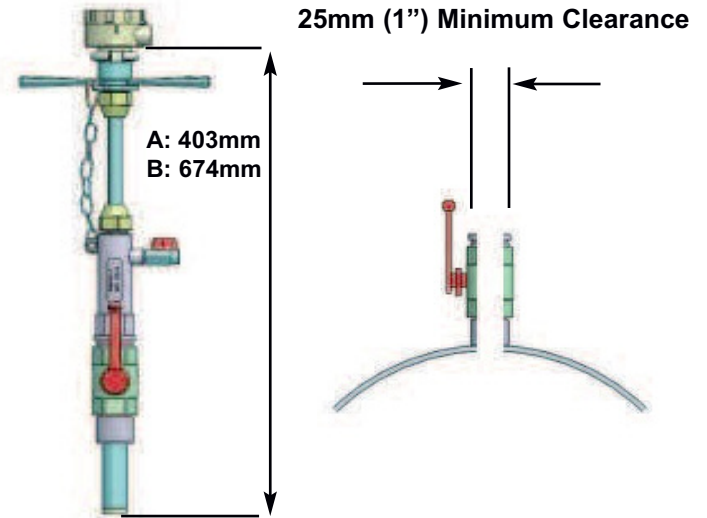
The EL 1222 interfaces to an integral or remote mounted MC608 transmitter with backlit display. The system can be powered with 110/240AC, 24V DC or battery powered.



## MC 608A/B Series Features

- High end controller
- Bi directional functionality
- AC and DC versions
- Battery powered version (6 to 10 year life)
- 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	0.5m/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



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