

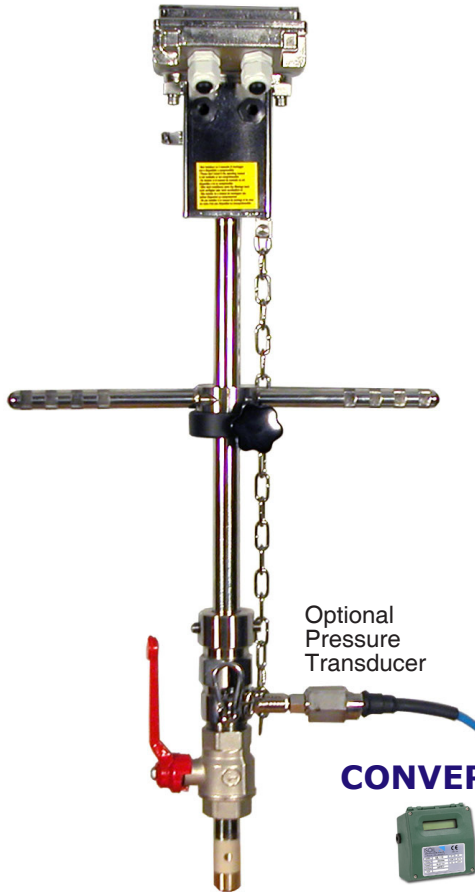
# MS3810

## AC, DC OR BATTERY OPERATED INSERTION MAGNETIC FLOWMETER

Economical solution for measuring flows in large diameter pipes



The MS3810 conforms to the requirements of NSF/ANSI Standard 61!



### MS3810 FEATURES

- No moving parts.
- Hot-tap capable.
- Enables installation without shutting down or emptying the pipe.
- Probe fits thru standard 1" NPT connection.
- Easy installation suitable for permanent or temporary installations.
- Wide choice of transmitters.
- Battery operated option ideal for use in water loss studies.
- Wireless GPRS communications option. Receive flow data via e-mail.
- Suitable for pipes ranging from 3 thru 300 inches in diameter.
- "Push-in" type insertion/retractor allows for fast pipe flow profiling.
- Bi-directional flow measurement.
- Optional pressure transducer.
- Every sensor is factory wet calibrated and tested.

### CONVERTER FEATURES



Model	ML51 Loop Powered	ML110 Standard	ML210 Graphic Display	ML255 Battery Operated	ML145 Battery Operated
Accuracy	0.5%	0.4%	0.2%	1.0%	0.5%
Mounting	Sensor	Sensor or wall	Sensor or wall	Sensor or wall	Sensor or wall
Keypad	3 Internal Keys (opt)	3 Internal Keys	3 Front Panel Keys	3 Front Panel Keys*	1 Front Panel Key
LCD Display	2-Line Alphanumeric (opt)	2-Line Alphanumeric	Graphic Display	Graphic Display*	2-Line x 16 Character Alpha (no backlight)
LCD Backlight	N	N	Y	N	N
4-20mA Output	Y Loop Powered	Y	Y	N	Y (Ext. Power only)
Pulse/Frequency /Alarm Output	1 Assignable Open Collector	2 Assignable Open Collector	2 Assignable Open Collector	2 Assignable Open Collector (opt)	2 Assignable Open Collector (opt)
Empty Pipe Detection	Y	Y	Y	Y	Y
Interface	PC	PC (RS485 opt)	PC (RS232, RS485, HART, Profibus DP optional)	PC, RS485 (opt), Wireless Cellular (FloWiz Model)	MS Windows PC with USB interface
Batch Function	N	N	Y	N	N
Power Supply	4-20mA Current Loop (19-33VDC) 12VDC @12mA (pulse output only)	90-265 VAC (Std) 10-63VDC 15-45VAC	90-265 VAC (Std) 10-35VDC 18-63VDC/15-45VAC	Universal 15-265 VAC+10-40VDC 1 Lithium 'D' Cell (Std) 4 Lithium 'D' Cell (Opt)	Up to 6 Lithium Batteries External Power: 10-30VDC
Enclosure	Plastic NEMA 4X, Aluminum NEMA 4X (opt)	Plastic NEMA 4X, Aluminum NEMA 4X (opt)	Aluminum NEMA 6, 304 SS NEMA 6 (opt)	Aluminum NEMA 6, Stainless Steel NEMA 6X (ML252 version*)	Aluminum NEMA 6

\*ML252 battery operated, NEMA 6X without keypad or display also available (sensor mount only).

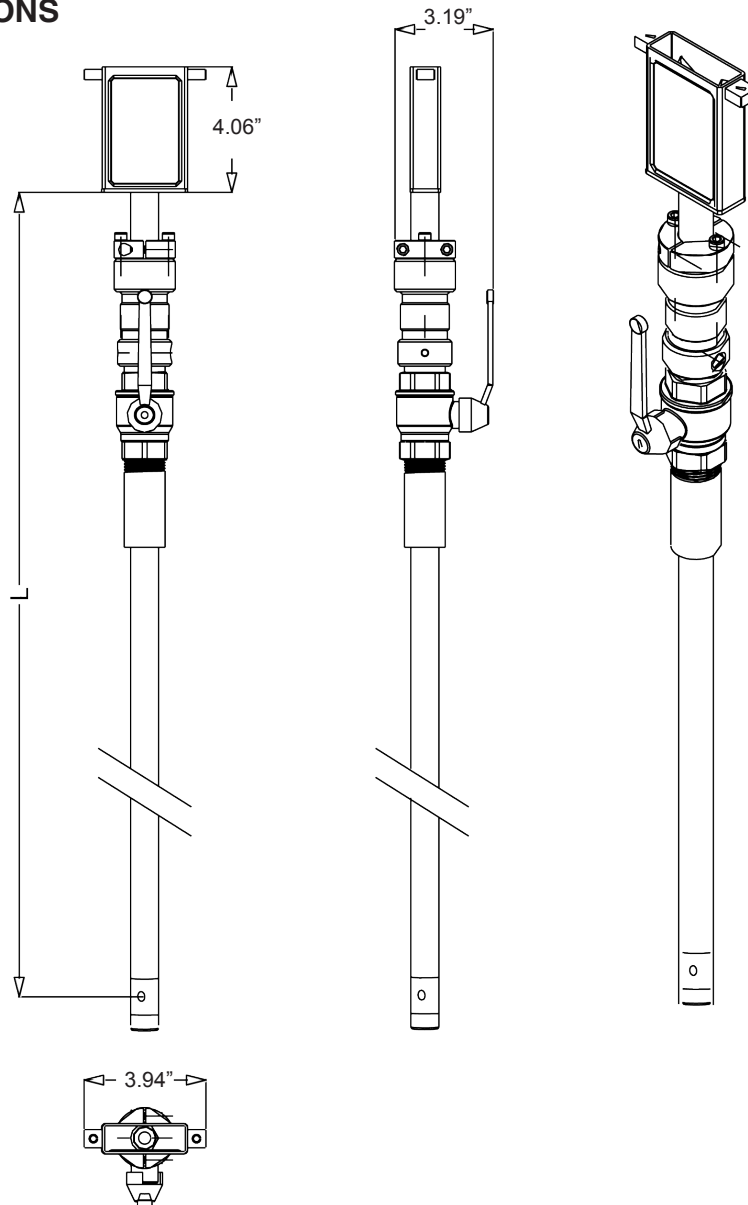
ELECTROMAGNETIC FLOWMETER

# FLOMOTION MS3810 ENGINEERING SPECIFICATIONS

## MS3810 Flow Sensor

- Accuracy to  $\pm 2.5\%$  of rate
- Repeatability:  $\pm 0.5\%$
- Temperature (Liquid)  
32 to 212°F
- Nominal Pressure: 360 PSI (higher on request)
- Electrode Material: 316 S.S. (other on request)
- Environmental Rating:  
NEMA 6 - Compact Version  
NEMA 6P - Separate Version (max 65 FT cable length)
- Fluid Conductivity: 5 mS/cm (min), 20mS/cm for ML145/ML255
- Electrode Head: PEEK
- Gasket Material: FPM (O-ring)
- Process Connection: 1" Threaded
- Body Material: 316 S.S.
- Connection Enclosure: 304 S.S.

## DIMENSIONS



	Max Depth	L
SIZE 0	6"	20.3"
SIZE 1	12"	26.2"
SIZE 2	20"	34.1"
SIZE 3	28"	41.9"
SIZE 4	40"	53.7"
SIZE 5	80"	93.1"

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