



APPLICATIONS

- Conductive fluids
- Small pipe applications (1"-12")
- Industrial processes
- Chemical metering pumps
- Fertigation

FEATURES

- No moving parts
- Economical
- Durable
- Easy to install
- Easy to maintain



GENERAL INFORMATION

EX800-Series insertion electromagnetic flowmeters are designed for use with conductive liquids in 1 to 12" pipe. A choice of materials (stainless steel, brass, and PVC) allows the meter to adapt to a range of temperature, pressure, and corrosive environments.

The EX800 is highly suitable for difficult applications with changing viscosities and pulsating flows, such as air-driven diaphragm pumps. With no moving parts, these meters can be used in "dirty water" applications where debris would foul a mechanical meter. Like all magmeters, when used in chemical injection applications, these meters should be installed upstream of the chemical line (or far enough downstream to allow complete mixing of fluids before the meter).

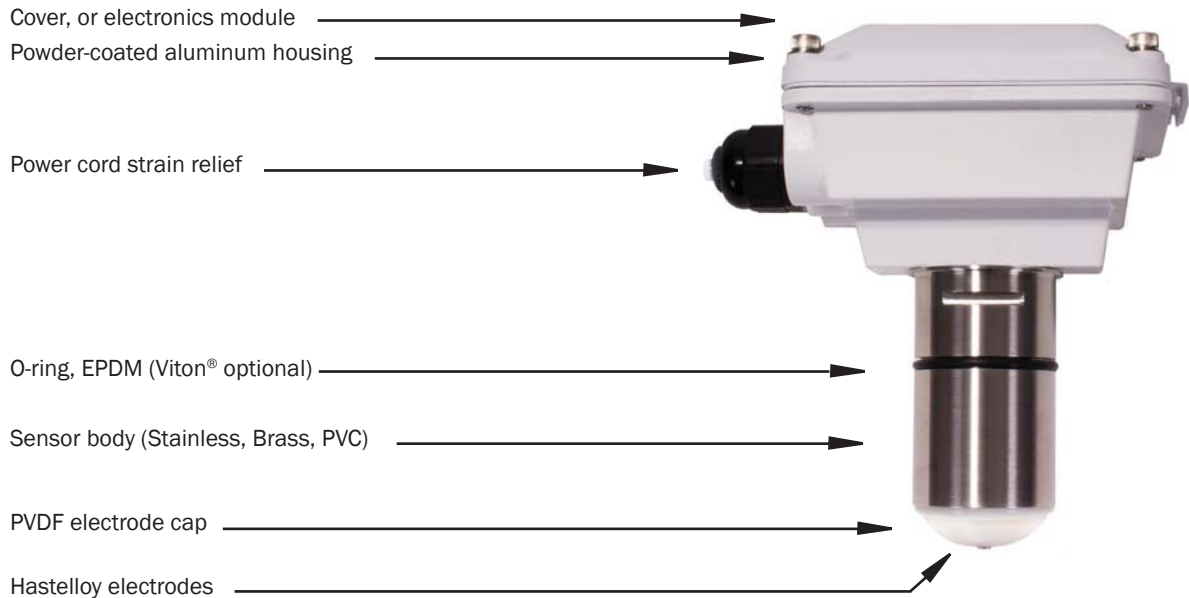
Designed for modularity and versatility, the EX800-Series has a current-sinking pulse output that can be combined with the

appropriate transmitter or indicator for the application. For basic rate/total and pulse output, the FT430 is best. For analog output and display of rate and total, the FT440 can be used. Blind analog output is provided by the A055. The PD10 can be used to divide the pulse for pacing chemical metering pumps. Electronic modules can be wall- or meter- mounted. If the EX800 meter is used with a programmable controller, the output signal can be fed direct, with no other conditioning required.

EX800-Series fixed depth insertion meters require special fittings. Factory installation in the fitting ensures correct depth placement in the pipe. The EX800-Series meter can be ordered in a full power model when a source of electricity is available, or in a low power model that can run on an external battery with solar panel.

Reverse flow output and immersibility are optional.

FEATURES

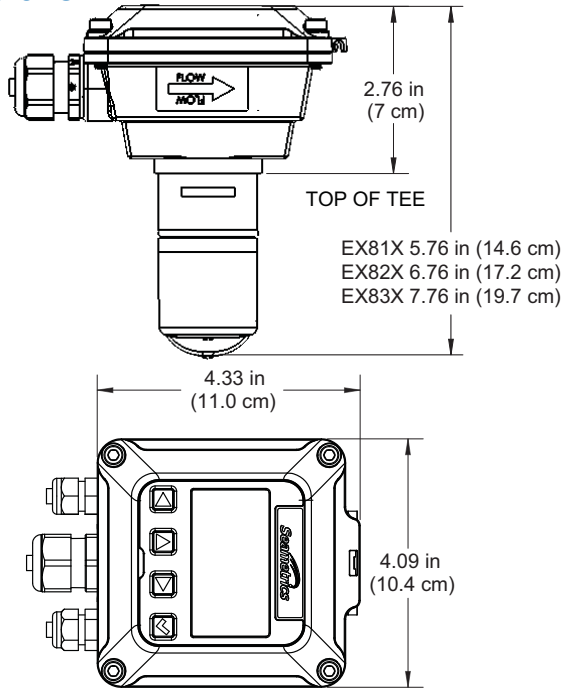


SPECIFICATIONS*

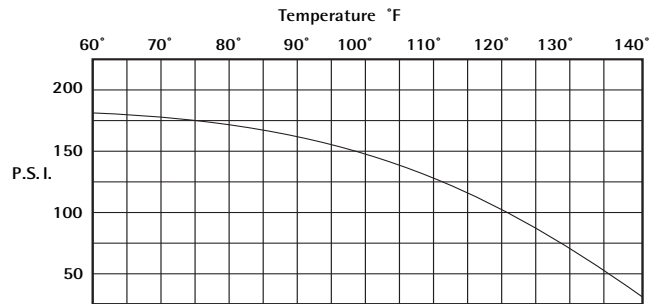
| | | |
|-----------------------------|------------------------------|--|
| Pipe Size | | 1" to 12" |
| Materials | Mechanical | 316 SS/Brass/PVC |
| | Electrodes | Hastelloy |
| | Housing | Cast powder-coated aluminum |
| | Electrode Cap | PVDF (Kynar®) |
| | O-Ring | EPDM standard (Viton® optional) |
| Power | Full Power | 12 - 25 Vdc, 250 mA |
| | Low Power | 12 - 25 Vdc, 40 mA average with 250 mA peaks |
| Flow Rate | | 0.28 - 20 ft/sec (0.08 - 6.09 m/sec) |
| Temperature | Ambient Temp | 0° to 160° F (-17° to 72° C) |
| | Fluid Temp : Brass/SS | 32° to 200° F (0° to 93° C) |
| | Fluid Temp: PVC | 32° to 130° F (0° to 55° C) @ 0 psi |
| Pressure | Brass/SS | 200 psi (14 bar) |
| | PVC | 150 psi (10 bar) @ 75° F (24° C) |
| Minimum Conductivity | | 20 microSiemens/cm |
| Calibration Accuracy | | +/- 1% of full scale |
| Output | | Square wave pulse, opto isolated, 550 Hz @ 20 ft/sec |
| Empty Pipe Detection | | Software, defaults to zero flow |
| Regulatory | | CE (Standard power only) |

*Specifications subject to change • Please consult our website for current data (www.seametrics.com).
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DIMENSIONS



PRESSURE VS. TEMPERATURE (PVC)



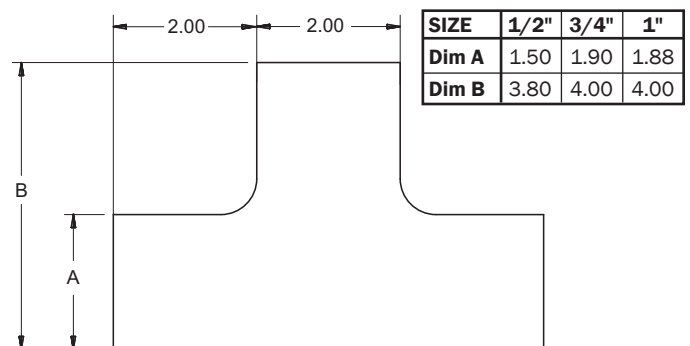
FLOW RANGE

| Nominal Pipe Size | 1" | 1½" | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
|-------------------|--------|--------|--------|---------|---------|---------|----------|----------|----------|
| Min GPM | .69 | 1.5 | 2.7 | 6.2 | 11 | 25 | 43 | 68 | 99 |
| Min LPM | 2.61 | 5.68 | 10.22 | 23.47 | 41.64 | 94.64 | 162.77 | 257.41 | 374.76 |
| Max GPM | 49 | 110 | 196 | 440 | 783 | 1760 | 3130 | 4900 | 7050 |
| Max LPM | 185.49 | 416.40 | 741.94 | 1665.58 | 2963.98 | 6662.33 | 11848.34 | 18548.52 | 26687.15 |

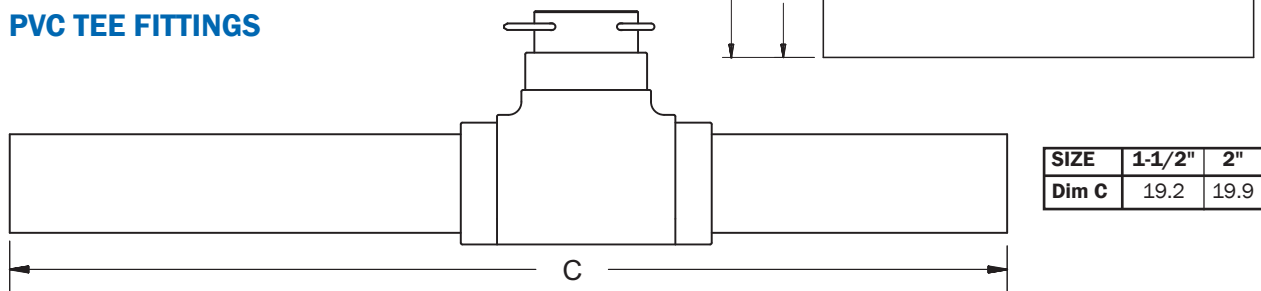
EX800-COMPATIBLE FITTINGS

| | Tee | Saddle | Weld/Braze | Sweat Tee |
|-----------------|------|--------|------------|-----------|
| Bronze | 1-4" | 3-4" | 3-12" | 1-4" |
| PVC | 1-2" | 3-8" | x | x |
| Stainless Steel | 1-2" | x | 3-12" | x |
| Carbon Steel | 1-2" | x | 3-12" | x |
| Ductile Iron | x | 3-12" | x | x |

PVC BLOCK TEE FITTING



PVC TEE FITTINGS



HOW TO ORDER

| Sensor Only | Description | Size | Sensor Material | Options |
|-------------------------|---|---|--|--|
| Sensor Only | Sensor Only. | 1" - 3" = EX810 4" - 10" = EX820 12" = EX830 | Brass = B 316 Stainless Steel = S PVC = P | Reverse Flow Output = -15 *Immersible = -40 Low Power Option = -50 Viton® O-Ring = -125 |
| A055 Mounted on Sensor | Description | Size | Sensor Material | Options |
| A055 Mounted on Sensor | Blind 4-20 mA analog transmitter (A055) mounted on the sensor. | 1" - 3" = EX812 4" - 10" = EX822 12" = EX832 | Brass = B 316 Stainless Steel = S PVC = P | Reverse Flow Output = -15 Low Power Option = -50 Viton® O-Ring = -125 |
| FT430 Mounted on Sensor | Description | Size | Sensor Material | Options |
| FT430 Mounted on Sensor | Rate & total indicator with pulse, externally powered (FT430) mounted on the sensor. | 1" - 3" = EX813 4" - 10" = EX823 12" = EX833 | Brass = B 316 Stainless Steel = S PVC = P | Reverse Flow Output = -15 Tamper Evident Kit = -32 Low Power Option = -50 Non-resettable Total = -64 Viton® O-Ring = -125 Hinged Display Cover= -126 |
| DL76 Mounted on Sensor | Description | Size | Sensor Material | Options |
| DL76 Mounted on Sensor | Data logger (DL76) mounted on the sensor. | 1" - 3" = EX816 4" - 10" = EX826 12" = EX836 | Brass = B 316 Stainless Steel = S PVC = P | Reverse Flow Output = -15 Tamper Evident Kit = -32 Low Power Option = -50 Viton® O-Ring = -125 |
| PD10 Mounted on Sensor | Description | Size | Sensor Material | Options |
| PD10 Mounted on Sensor | Pulse Divider (PD10) mounted on the sensor. | 1" - 3" = EX818 4" - 10" = EX828 12" = EX838 | Brass = B 316 Stainless Steel = S PVC = P | LMI Pump Connector = -06 Reverse Flow Output = -15 10 Ft. Cable for LMI Connector = -37 Low Power Option = -50 Roytronic® Series-A Pump / 5-pin Connector = -106 Viton® O-Ring = -125 |
| FT440 Mounted on Sensor | Description | Size | Sensor Material | Options |
| FT440 Mounted on Sensor | Rate & total indicator with pulse & 4-20 mA output, loop powered (FT440) mounted on the sensor. | 1" - 3" = EX819 4" - 10" = EX829 12" = EX839 | Brass = B 316 Stainless Steel = S PVC = P | Reverse Flow Output = -15 Tamper Evident Kit = -32 Low Power Option = -50 Non-resettable Total = -64 Viton® O-Ring = -125 Hinged Display Cover= -126 |

* Immersible to maximum of 3 ft (1m), up to 2 weeks
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