

# EX80 Series

## ELECTROMAGNETIC INSERTION FLOW SENSOR SPECIFICATIONS

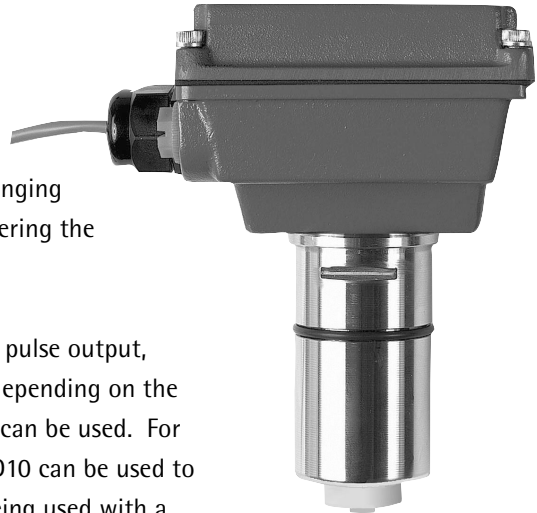


### GENERAL INFORMATION

The EX81 is an insertion electromagnetic flowmeter for use with conductive liquids in pipe sizes 1" to 3". The EX82 is for use with pipe sizes 4" to 8". With no moving parts, it is highly suitable for corrosive environments and for difficult applications such as those involving changing viscosities and pulsating flows. It is particularly recommended for metering the output of air-driven diaphragm pumps.

Designed for modularity and versatility, the EX81 has a current-sinking pulse output, which can be combined with the appropriate transmitter or indicator depending on the application. For analog output and display of rate and total, an FT420 can be used. For analog only, the AO55 can be mounted directly onto the meter. The PD10 can be used to divide the pulse for pacing chemical metering pumps. If the EX81 is being used with a programmable controller, the output signal can be fed direct with no other conditioning required.

The EX81 requires a special fitting, since it is not depth-adjustable as are the EX100/200 series meters. Installation in the fitting ensures correct depth placement in the pipe. Fittings and sensors are available in PVC, brass, and stainless steel.



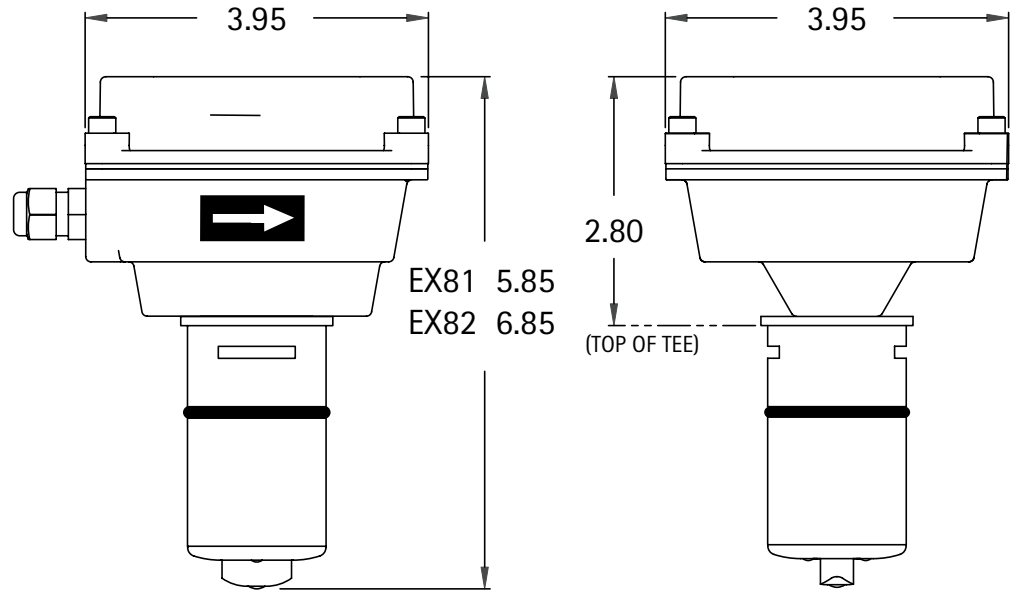
EX80 SERIES ELECTROMAGNETIC INSERTION  
FLOW SENSOR SPECIFICATIONS

### SPECIFICATIONS

<b>POWER</b>			
• 12 - 24 Vdc, 250 mA minimum			
<b>FLOW RANGE</b>			
• 0.2 - 20 ft/sec (.06 - 6.09 m/sec)			
<b>MAXIMUM TEMPERATURE</b>			
• PVC	130° F (55° C)		
• Brass, SS	200° F (93° C)		
<b>PRESSURE</b>			
• 200 psi (13.8 bar)			
<b>MINIMUM CONDUCTIVITY</b>			
• 20 microsiemens/cm			
<b>MATERIALS</b>			
• Mechanical	316 SS/Brass/PVC	• Electrodes	Carbon Graphite
• Electrode plate	PVDF	• Housing	Cast powder-coated aluminum
<b>O-RINGS</b>			
• EPDM			
<b>CALIBRATION ACCURACY</b>			
• 1% of full scale			
<b>OUTPUT</b>			
• Square wave pulse, opto isolated, 500 Hz @ 20 ft/sec			
<b>BI-DIRECTIONAL</b>			
• Direction output, opto isolated			
<b>EMPTY PIPE DETECTION</b>			
• Software, defaults to zero flow			

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## DIMENSIONS:



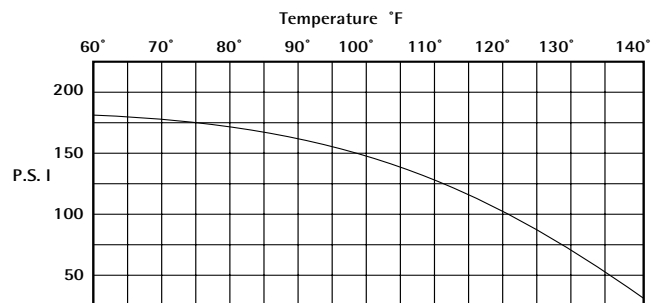
## FLOW RANGE (GPM)

	1"	1-1/2"	2"	3"	4"	6"	8"
• Min	.54	1.3	2	4.5	8	18	31
• Max	54	127	209	461	794	1800	3120

## FITTINGS AVAILABILITY

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

## PVC WORKING PRESSURE VS. TEMPERATURE



## HOW TO ORDER

### EX80 SERIES ELECTROMAGNETIC FLOW SENSORS

EX81 - \_\_\_\_\_

EX82 - \_\_\_\_\_

(Place Material Code here)

#### Material Codes:

P = PVC

B = Brass

S = 316 SS



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