

Fax

Name: Tim Luke
Organization: Dept. Water Resources
Fax: 208-287-6700
Phone: 208-287-4800
From: Bruce Rowser
Date: Mar.25,08
Subject: Measureing Devices
Pages: 6

Comments: The following is my plan on how to measure my water.

From the desk of...
Bruce Rowser
Henefer, Utah <ZIP 84033
435 - 336 - 2206

March 25,08
Tim Luke
Dept. Of Water Resources
322 East Front Street
Boise, Idaho 83720-0098

RE: Measuring Devices in Water District 11

Tim,

I will install water meters on my pumps prior to pumping in the 2008 irrigation season . I am sending this imformation from my supplier as to what I am intending to install.

Thank You ,

Bruce Rowser



EX80-SERIES Electromagnetic Flow Sensor



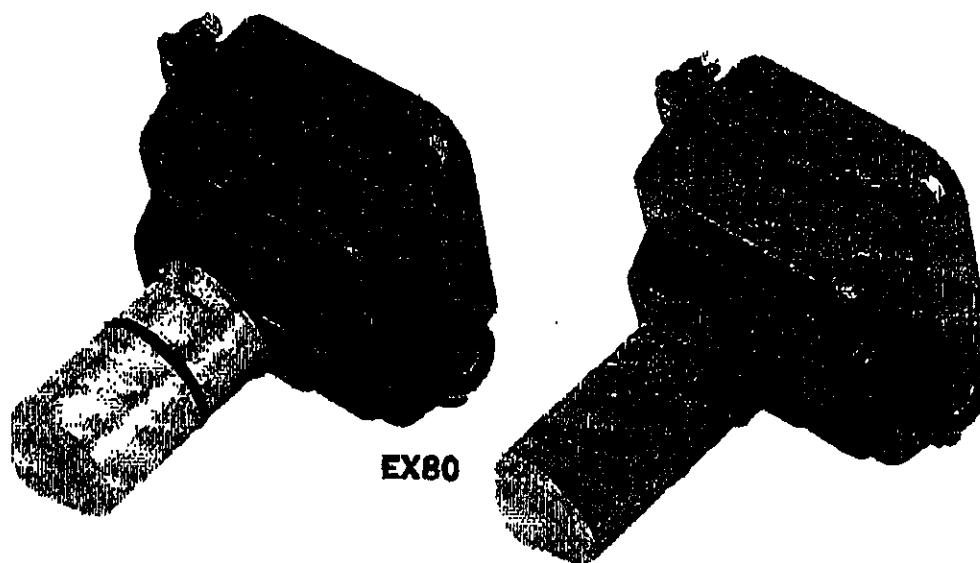
Sales & Service:
Intermountain Environmental, Inc.
Togon, UT (800) 948 6236
<http://www.inmtn.com>

APPLICATIONS

- Conductive fluids
- Small pipe applications (1-10")
- Industrial processes
- Chemical metering pumps
- Fertigation

FEATURES

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



EX80

GENERAL INFORMATION

EX80-Series insertion electromagnetic flowmeters are designed for use with conductive liquids in 1-10" pipe. They are 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" applications where debris would foul a mechanical meter. A choice of materials (stainless steel, brass, and PVC) allows the meter to adapt to a range of temperature, pressure, and corrosive environments.

Designed for modularity and versatility, the EX80-Series has a current-sinking pulse output that can be combined with the appropriate transmitter or indicator for 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. The DL75 (data logger) and FT520 (batching flow processor) are also compatible. If the EX80-Series meter is being used with a programmable controller, the output signal can be fed direct, with no other conditioning required.

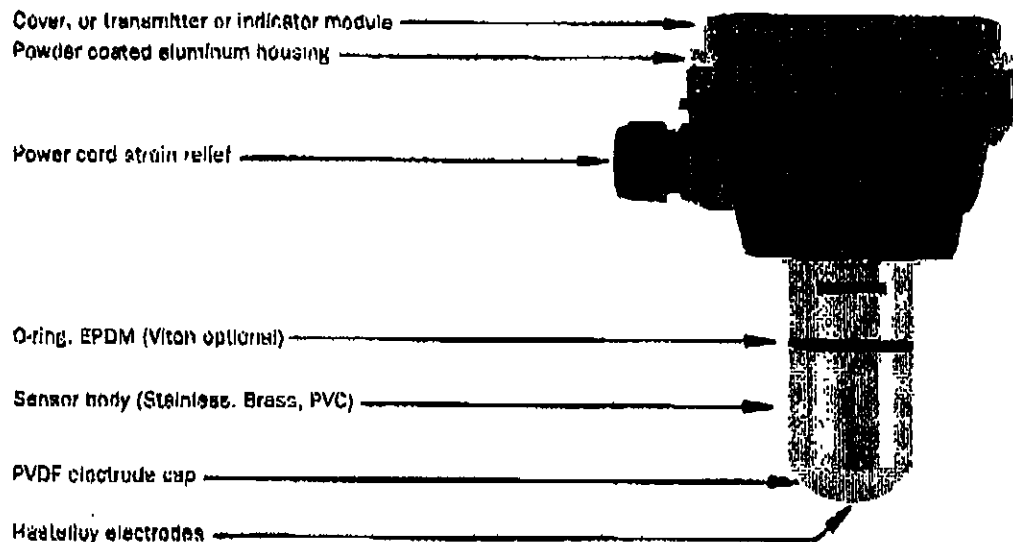
The EX80-Series fixed depth insertion meters require special fittings. Factory installation in the fitting ensures correct depth placement in the pipe. The EX80-Series meter can be ordered in a full power model when a source of electricity is available, or in a low power model that can run on an external battery with solar panel.

Reverse flow output and immersibility are optional.



EX80-SERIES Electromagnetic Flow Sensor

FEATURES



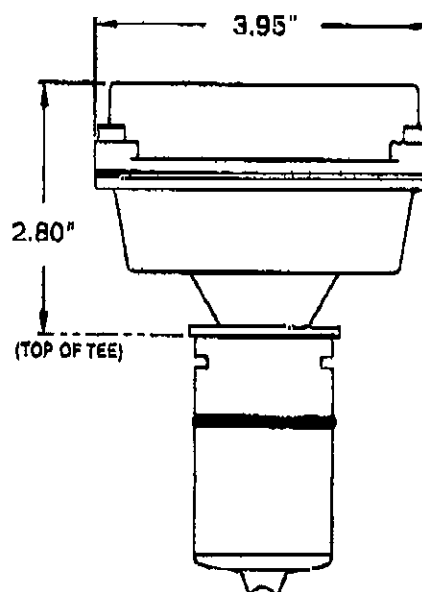
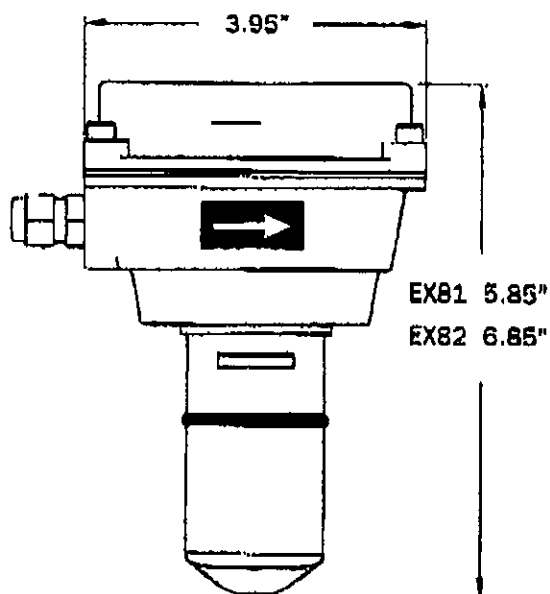
SPECIFICATIONS

Power	Full Power	12 - 24 Vdc, 250 mA
	Low Power	12 - 24 Vdc, 10 mA
Flow Range		0.28 - 20 ft/sec (0.08 - 6.09 m/sec)
Temperature	Ambient Temp	0° - 180° F (-17° - 82° C)
	Fluid Temp: Brass/SS	32° - 200° F (0° - 93° C)
	Fluid Temp: PVC	32° - 130° F (0° - 55° C) @ 0 psi
Pressure	Brass/SS	200 psi (13.8 bar)
	PVC	150 psi (10 bar) @ 75° F
Minimum Conductivity		20 microSiemens/cm
Materials	Mechanism	316 SS/Brass/PVC
	Electrodes	Metallurgy
	Housing	Cast powder-coated aluminum
	Electrode Cap	PVDF (Kynar)
	O-Ring	EPDM standard (Viton optional)
Calibration Accuracy		1% of full scale
Output		Square wave pulse, opto isolated, 500 Hz @ 20 ft/sec
Empty Pipe Detection		Software, defaults to zero flow

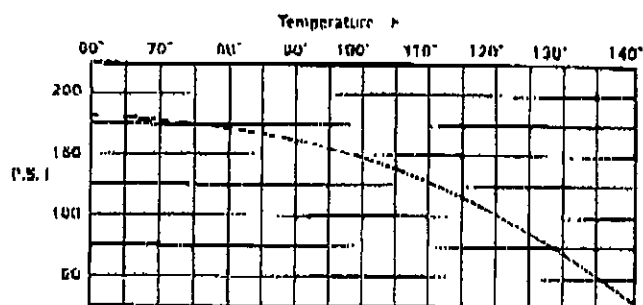


EX80-SERIES Electromagnetic Flow Sensor

DIMENSIONS



PVC WORKING PRESSURE VS. TEMPERATURE



FLOW RANGE (In GPM)

	1"	1-1/2"	2"	3"	4"	6"	8"	10"
Min	.50	1.1	2	4.5	8	18	31	49
Max	50	110	196	440	783	1763	3133	4895



EX80-SERIES Electromagnetic Flow Sensor

EX80-COMPATIBLE FITTINGS

Variety of Fittings



	Top	Saddle	Weld/ Braze	Sweet Tee
Bronze	1-4"	3-4"	3-10"	1-4"
PVC	1-2"	3-8"	x	x
Polypro	x	3-8"	x	x
Stainless Steel	1-2"	x	3-10"	x
Carbon Steel	1-2"	x	3-10"	x
Ductile Iron	x	3-10"	x	x

HOW TO ORDER

MODEL

1" - 3" pipe = EX81
4" - 10" pipe = EX82

MATERIAL

PVC = P
Brass = B
316 Stainless = S

OPTIONS

Accuracy flow output = -15
Immersible = -40
Low power = -90
Viton O-ring = -125

FITTINGS

Select from chart above
(lining type, and material)

ACCESSORIES

Rate and Total Indicator = FT420
Blind 4-20 mA Converter = A055
Data Logger = DL75
Pulse Divider = PD10

Extra Cable (specify length) = 31010
Power Converter, Plug-In, 115 Vac, 24 Vdc = PC3
Dual Power Supply, 115 Vac, 12/24 Vdc = PC42
Solar Panel Kit, 5 Watt = RSP5

CONTACT YOUR SUPPLIER

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