PE202
LOW FLOW MAGMETER

APPLICATIONS

Chemical & fertilizer injection

Corrosive materials

Low flow applications

Pulsating flows
(e.g., metering pump)

Features

- No moving parts
- Requires no straight pipe
- Pulse and/or 4-20 mA output
- Chemical and corrosion resistant
- Insensitive to fluid density and fluid viscosity changes

The **PE202** magmeter is designed for low-flow chemical and fertilizer injection or difficult-to-meter applications with pulsating metering pumps in 1/4" to 3/4" pipe/tube. The housing is made of sturdy splashproof HDPE plastic.

With no moving parts, the PE202 can handle fluids containing particulate matter without clogging or jamming, keeping maintenance at a minimum. With no metallic parts (100% PVDF body and PVDF carbon fiber-filled electrodes), the meter is corrosion-resistant and compatible with a wide range of chemicals. Accuracy is maintained with conductive fluids (>20 microSiemens) of varying viscosities and densities.

The PE meter is compact enough to fit most pump/injection systems. With zero straight pipe required after an elbow, it can be easily mounted in tight spaces. The mounting bracket adds stability.

The PE meter has an optoisolated current sinking pulse output that can be connected to the Seametrics FT430/440 rate/total display or FT520 batch processor, as well as an optoisolated 4-20 mA current loop for powering analog devices. Outputs and power are provided through a 20 foot (6 meter) cable with 8-pin female circular connector.

Contact Your Supplier

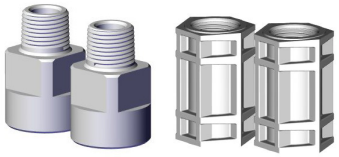
Features

8-pin circular bulkhead connector, 20 foot (6 meter) cable provided

Internals made of chemical and corrosion-resistant PVDF

Sturdy HDPE housing

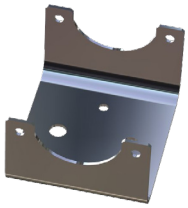
½" male NPT with white flowbody for -075 version



Threaded male or female NPT adapters can be purchased separately (available in PVDF and PP)
(Female NPT available in 1/2" only)

Note: ½" male NPT with gray flowbody for -038 version

Embedded cable option (available for both -038 and -075 models)



Mounting bracket

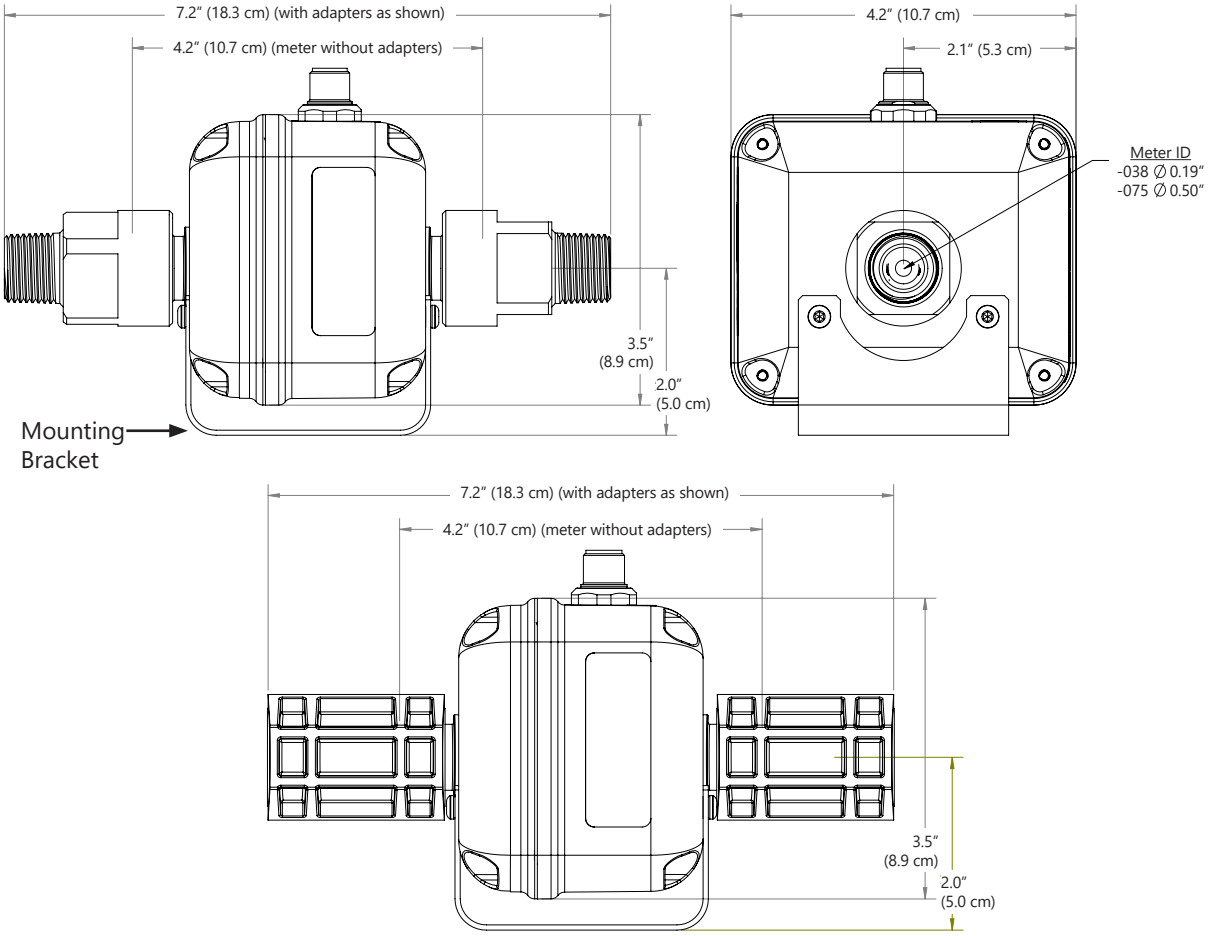
Specifications*

Pipe Size		3/4", 1/2", 3/8", 1/4" **
Fittings		1/2" NPT fittings standard in 3/4" or 3/8" flowbody. NPT threaded adapters available for above pipe sizes.
Materials	**Body**	PVDF
	Electrodes	PVDF carbon fiber filled
	Ground	PVDF carbon fiber filled
	Housing	HDPE with 25% glass
	Adapters (NPT)	Polypropylene or PVDF
Temperature	**Ambient**	0˚ to 130˚ F (-18˚ to 54˚ C)
	Fluid	32˚ to 200˚ F (0˚ to 93˚ C)
Pressure		150 psi
Flow Range	**-075**	20 GPM max. (0.2 GPM cutoff; 11.5 max GPM with high resolution option)
	-038	3 GPM max. (0.03 GPM cutoff)
Accuracy	**-075**	±1% plus ±0.005 GPM of reading across rated range
	-038	±1% plus ±0.002 GPM of reading across rated range
Output Signal		Optoisolated current sinking or current sourcing pulse output: 30 Vdc, 5 mA max Optoisolated 4-20 mA current loop: 7 Vdc plus load voltage drop min; 50 Vdc max
	-075	500 pulses/liter (1892 pulses/gallon)
	-038	1000 pulses/liter (3785 pulses/gallon)
Power		10–15 Vdc, 150 mA (linear power supply recommended)
Conductivity		>20 microSiemens
Empty Pipe Detection		Hardware/software, conductivity-based
Environmental		NEMA 4X standard; IP66 splashproof standard

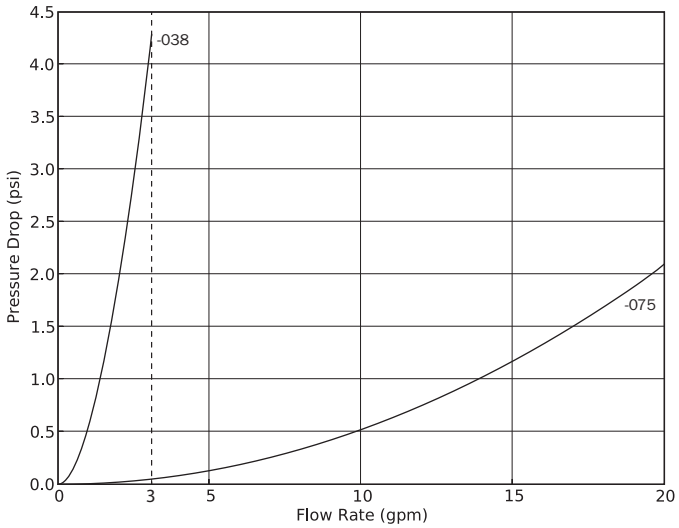
** Specifications subject to change • Please consult our website for current data (seametrics.com).*
*** Requires adaptors*

NOTE: Consult factory for applications flowing sodium hypochlorite, sodium chlorite, sodium chlorate.
For applications with the listed chemicals, the following conditions apply:
- *Max concentration 15% / Max temperature 100˚ F*
- *Flow is greater than 20% of min for accurate reading*

Dimensions



Pressure Drop Curve



PE202-075 with 3/4" adapters.
PE202-038 with 3/8" adapters.
Actual curve dependant on pipe size/fittings

HOW TO ORDER

MODEL	SIZE	OPTIONS
PE202	3/4" = **-075**	5.5' Embedded Cable* = **-138**
	3/8" = **-038**	High Resolution Pulse Output* = **-400**
		18,927 K Factor = **-038**
		10,000 K Factor = **-075**
PE202		

* Pulse Output Only

FITTINGS

Meter comes standard
with 1/2- 14 MNPT Fittings

ACCESSORIES

Rate and Total Indicator = **FT430**

Rate and Total Indicator = **FT440**

Batch Flow Processor = **FT520**

Single 12 Vdc Regulated Power Supply = **PC12**

Dual 12–24 Vdc Regulated Power Supply = **PC42**

Adapter Options:

103411	PE202 PVDF Adapter Kit 1/2" FNPT
103412	PE202 PVDF Adapter Kit 1/4" MNPT
103413	PE202 PP Adapter Kit 1/4" MNPT
103414	PE202 PVDF Adapter Kit 3/8" MNPT
103415	PE202 PP Adapter Kit 3/8" MNPT
103416	PE202 PVDF Adapter Kit 1/2" MNPT
103417	PE202 PP Adapter Kit 1/2" MNPT
103418	PE202 PVDF Adapter Kit 3/4" MNPT
103419	PE202 PP Adapter Kit 3/4" MNPT

User is responsible for reviewing end use application with their supplier for product suitability.