PE102
Low Flow Magmeter

ISO 9001:2000 CERTIFIED

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

APPLICATIONS

- Chemical injection
- Corrosive materials
- Low flow applications
- Pulsating flows (e.g., metering pump)

GENERAL INFORMATION

The **PE102 magmeter** is designed for low-flow chemical injection or difficult-to-meter applications with pulsating metering pumps in 3/4" and 1/2" pipe/tube. (Additional sizes are under development.) The housing is made of sturdy splash-proof HDPE plastic.

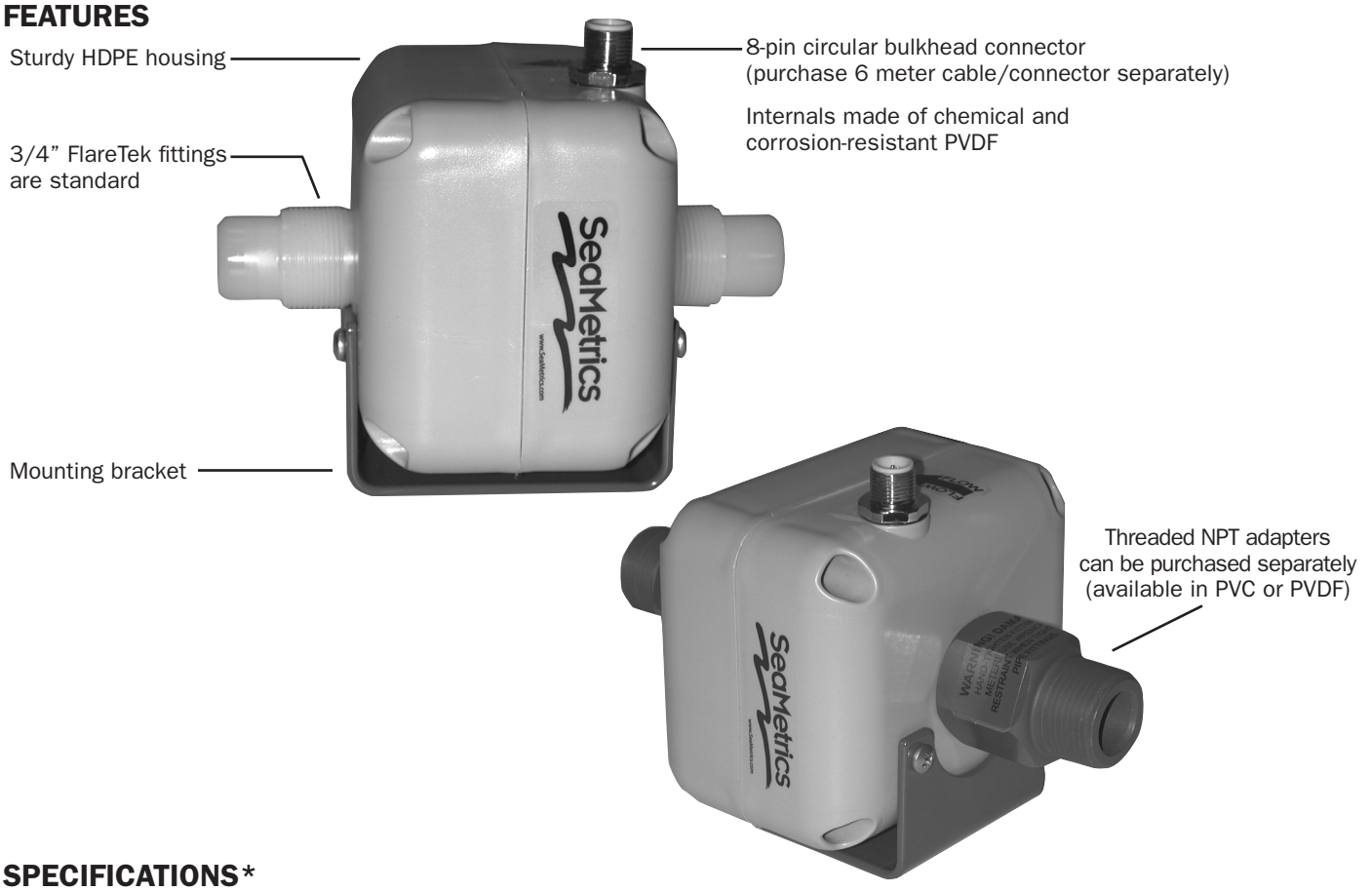
With no moving parts, the PE102 can handle fluids containing particulate matter without clogging or jamming, keeping maintenance at a minimum. With no metallic parts (100% PVDF body and PVDF carbon fiber-filled electrodes), the meter is corrosion-resistant and compatible with a wide range of chemicals. 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 optocoupled current sinking or current sourcing pulse output that can be connected to the SeaMetrics FT420 rate/total display or FT520 batch processor, as well as a 4-20 mA loop for powering analog devices. Outputs and power are provided through a cable with 8-pin female circular connector. Order the required cable/connector separately from SeaMetrics (see How to Order, back page) or from another vendor (one possibility is *www.turck-usa.com, part #RKC 8T-6-S618).*

PE102
Low Flow Magmeter

FEATURES



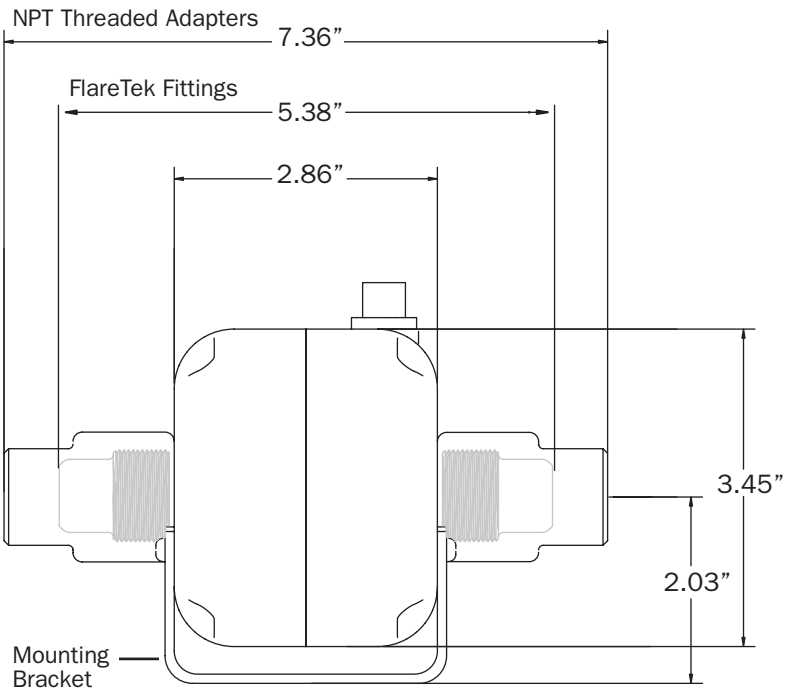
SPECIFICATIONS*

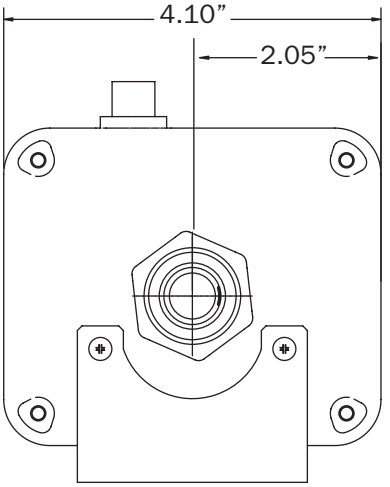
Pipe Size		3/4” & 1/2”** (Additional sizes are under development)
Fittings		3/4” FlareTek fittings standard; NPT threaded adapters also available
Materials	**Body**	PVDF
	Electrodes	PVDF carbon fiber-filled
	Ground	PVDF carbon fiber-filled
	Housing	HDPE
	Fittings (FlareTek)	PVDF
	Adapters (NPT)	PVC or PVDF
	O-Rings (for NPT)	EPDM or Viton
Temperature	**Ambient**	0˚ to 130˚ F (-18˚ to 54˚ C)
	Fluid	32˚ to 200˚ F (0˚ to 93˚ C)
Pressure		150 psi
Conductivity		>20 microSiemens
Flow Range		20 GPM Max. (0.2 GPM Cutoff) (Addtional flow ranges are under development)
Accuracy		+/- 1% + 0.005 GPM of reading across rated range
Output Signal		Optocoupled current sinking or current sourcing pulse output: 30 Vdc, 5 mA max 4-20 mA current loop, 500 P/L; 7 Vdc plus load voltage drop min; 50 Vdc max
Power		10-15 Vdc, 150 mA (linear power supply recommended)
Empty Pipe Detection		Hardware/software, conductivity-based
Environmental		NEMA 4X standard; IP 66 Splashproof standard

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

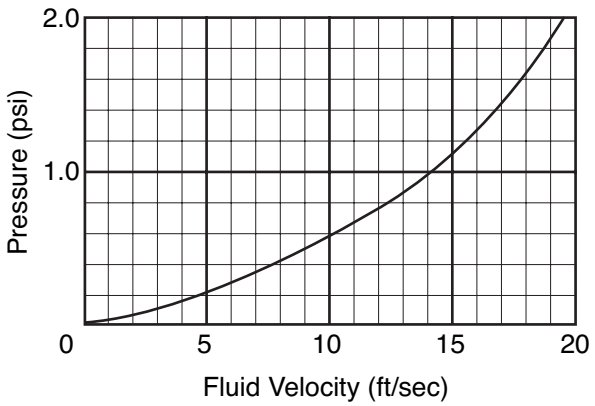
PE102
Low Flow Magmeter

DIMENSIONS





PRESSURE DROP CURVE



PE102 with 3/4” adapters.
Actual curve dependant on pipe size/fittings

PE102
Low Flow Magmeter

HOW TO ORDER

MODEL	SIZE	CABLE	FITTINGS
PE102	3/4" **= -075**	Order cable separately from Accessories below or use an outside vendor.	Meter comes standard with FlareTek fittings. NPT Adapters can be added. See below to choose Accessories required with your fitting choice.
PE102	**-075**		

Additional sizes under development

ACCESSORIES

Rate and Total Indicator = **FT420**

Batch Flow Processor = **FT520**

6 meter cable with 8-pin female circular connector = **32061**

Required with FlareTek fittings:

3/4" FlareTek tubing nut (2 req) = **32128**

Flare tool, 3/4" fitting = **32129**

Required with NPT adapters (must choose adapter PLUS O-ring material):

3/4" MNPT adapter, PVC (2 req) = **32050**

3/4" MNPT adapter, PVDF (2 req) = **32064**

1/2" MNPT adapter, PVC (2 req) = **32315**

1/2" MNPT adapter, PVDF (2 req) = **32314**

O-ring, EPDM (2 required) = **31462**

O-ring, Viton (2 required) = **32135**

CONTACT YOUR SUPPLIER

SeaMetrics Incorporated • 19026 72nd Avenue South • Kent, Washington 98032 • USA
(P) 253.872.0284 • (F) 253.872.0285 • 1.800.975.8153 • www.seametrics.com

LT-13353-B
6/17/09