

PE102 series PVDF low flow magnetic inductive flowmeter

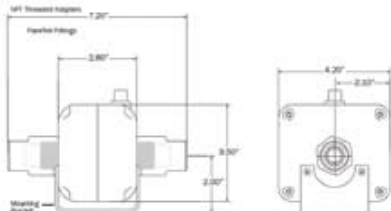
The PE102 magmeter is designed for low-flow chemical injection or difficult-to-meter applications with pulsating metering pumps in 3/4" down to 1/4" pipe or tube. The housing is made of sturdy splash proof HDPE plastic.

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 fibre 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.



- No moving parts
- Chemically resistant non-metallic construction
- 100:1 turn-down
- Pulse or analogue output

Dimensional Information



Technical Information

| | |
|-----------------------|---|
| Pipe size | 3/4", 1/2", 3/8", 1/4"*** |
| Fitting | FlareTek fittings standard in 3/4" or 3/8" flowbody; NPT threaded adapters also available |
| Body | PVDF |
| Electrodes | PVDF carbon fiber-filled |
| Ground | PVDF carbon fiber-filled |
| Housing | HDPE with glass fiber |
| Fittings (FlareTek) | PVDF |
| Adapters (NPT) | PVC or PVDF |
| O-Rings (for NPT) | EPDM or Viton |
| Ambient temp range | -18° to 54°C |
| Fluid temp range | 0° to 93°C |
| Max Pressure | 10 Bar |
| -075 Model flow range | 76 LPM Max 0.76LPM cut off |
| -038 Model flow range | 11LPM Max. 0.11LPM cut off |
| -075 Model accuracy | +/- 1% of reading across rated range |
| -038 Model accuracy | +/- 1% of reading across rated range |
| Output Signal | |
| -075 | Optocoupled current sinking or current sourcing pulse output: 30 Vdc, 5mA max 4-20 mA current loop: 7Vdc plus load voltage drop min; 50 Vdc max PE102-075: 500 pulses/litre (1892 pulses/gallon) |
| -038 | PE102-038: 1000 pulses/litre (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; IP 66 Splashproof standard |

Options & Ordering Information

| MODEL | SIZE | CABLE | FITTINGS |
|--|--|---|--|
| PE102 | 3/4" = -075 3/8" = -038 | 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 | | | |
| ACCESSORIES | | | |
| Rate and Total Indicator = FT420 | Required with FlareTek fittings: | Required with NPT adapters (must choose adapter PLUS O-ring material): | |
| Batch Flow Processor = FT520 | -075: 3/4" FlareTek tubing nut (2 req) = 32129 Flare tool, 3/4" fitting = 32129 | -075: 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 | |
| 6 meter cable with 8-pin female circular connector = 32363 | -038: 3/8" FlareTek tubing nut (2 req) = 32749 Flare tool, 3/8" fitting = 32750 | -038: 3/8" MNPT adapter, PVC (2 req) = 32728 3/8" MNPT adapter, PVDF (2 req) = 32729 1/4" MNPT adapter, PVC (2 req) = 32748 1/4" MNPT adapter, PVDF (2 req) = 32747 O-ring, EPDM (2 required) = 32741 O-ring, Viton (2 required) = 32742 | |