PERPETUAL® PD · SENSUS-COMPATIBLE

Sensus-Compatible Perpetual® PD

On FlexNet®? Keep it.

Perpetual PD meters with a Sensus-approved Optical Encoder and a Sensus-compatible touch coupler, ready for SmartPoint® radios on the FlexNet® network.



Sensus-Approved Encoder | SmartPoint® Ready | Boltless Case | Made in the USA

1/8 gpm	10 yr	25 yr	150 psi
start-up, 5/8 in (95%)	new-meter accuracy warranty	main case warranty	all bottom plates

FLEXNET

Same network, better meter

A Sensus-approved Optical Encoder and Sensus-compatible touch coupler (EP-TRPL) plug into your SmartPoint radios.

WHY BOLTLESS

The chamber stays round

Bolts that back off or tighten unevenly can bend a chamber until the piston rubs. The Perpetual uses a retaining ring for 360° even compression instead.

SILICONE, NOT NITRILE

Seals that hold up

The chamber is cradled in 100% silicone, with an oversized silicone outlet gasket that resists chloramine.

MADE IN THE USA

Shorter lead times

Manufactured, assembled and tested in the USA. Available with a single check valve.

CONSTRUCTION

Standard	AWWA C700, latest revision (performance and dimensions)
Main case	Lead-free bronze (BiAlloy CDA89836 or EnviroBrass II C89520), NSF/ANSI 61 and 372; serial, size, flow direction and RG3 cast in
Case design	Boltless; bottom plate held by a stainless steel retaining ring for 360° uniform compression on the chamber
Bottom plate	Plastic, bronze or cast iron
Measuring chamber	Engineering thermoplastic; piston near the specific gravity of water; stainless steel spindles
Seals	Chamber cradled in 100% silicone top and bottom; oversized 100% silicone outlet gasket; high-pressure nitrile body O-ring
Strainer	Polypropylene, removable, at least twice the inlet area

PERFORMANCE

Sizes, flows and registers

CONSTRUCTION (CONTINUED)

Magnet	Ceramic ferrite, magnetic drive

CONSTRUCTION (CONTINUED)

Register	Straight-reading, roll-sealed, dry, 360° test view; sweep = 10 gal or 1 cu ft; low-flow indicator; tamper-proof Torx screw
Options	Single check valve (non-return) for back flow prevention
Operating temperature	33–80 °F
Installation	Horizontal or inclined lines, clean pipe, flow per cast arrow
Maintenance	Measuring chamber removable for repair or replacement
Warranty	10-year new-meter accuracy; 25-year main case

PERFORMANCE AND DIMENSIONS

Model	PPD05	PPD07	PPD08S	PPD08L	PPD10
Size	5/8 × 1/2 in	5/8 × 3/4 in	3/4 in	3/4 in	1 in
Start-up (95%), gpm	1/8	1/8	1/4	1/4	1/2
Low flow (AWWA), gpm	1/4	1/4	1/2	1/2	3/4
Continuous (AWWA), gpm	15	15	20	20	25
High flow, gpm	20	20	30	30	50
Extreme high (intermittent), gpm	28	28	35	35	65
Max pressure (all bottoms), psi	150	150	150	150	150
Length	7-1/2 in	7-1/2 in	7-1/2 in	9 in	10-3/4 in
Height	4-13/16 in	4-13/16 in	5-1/2 in	5-1/2 in	6-7/8 in
Weight	3.4 lb	3.4 lb	6.4 lb	6.4 lb	11.2 lb
Ends	Threaded	Threaded	Threaded	Threaded	Threaded

REGISTER OPTIONS

Read method	Register
Direct read	Bronze or engineered plastic, sealed magnetic drive
AMR	Tesla 4 TR transceiver register
AMI or AMR	Optical Encoder with Tesla Duo or Tesla Solo
AMI or AMR	Tomahawk Encoder with Tesla Duo or Tesla Solo
Sensus FlexNet	Optical Encoder with Sensus-compatible touch coupler

25+ years Field data from American Water and Kansas City Water Services shows most PD meters still testing near 100% accuracy past 25 years in service (Hughes, Bentley Be Conference, 2010).

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