

Flows.com Flow Measurement Solutions

ME-PDEN NTEP Approved Positive Displacement Water Meters with Encoded Digital Register



Description

For use in measurement of potable cold water in residential, commercial, and industrial services where flow is in one direction only.

The register's powerful and intuitive mobile application allows you to both program as well as collect reads from it without the need of additional costly equipment. This facilitates utilities to both reduce expenses while increasing the efficiency of daily operations.

The measuring chamber is an oscillating piston positive displacement design made of engineered plastics that meet NSF standards. The ME-PDEN series meters are all approved by NTEP for horizontal and vertical installations in cold water.

Specifications

Pressure: up to 150 PSIG

Temperature: up to 120°F

Maximum Reading:

US Gallon models

3/4" to 1": 9,999,999.99

1 1/2" to 2": 99,999,999.99

Cubic Feet models

3/4" to 1": 999,999.99

1 1/2" to 2": 9,999,999.99

Accuracy:

Normal flow: +/- 1.5% Low flow: + 1.5% / - 5%

Ingression Protection:

Exceeds IP68 for submersed applications

Features

Meter Body

- Made from lead free bronze
- NSF/ANSI/CAN 61 and 372 certified
- Includes 1/4" - 20 threaded boss for AMR/AMI pit installations
- Electrical grounding continuity

Measuring Chamber

- Oscillating piston measuring chamber
- Widest effective flow range for maximum revenue
- Polymer measuring chamber materials maximize long-term accuracy

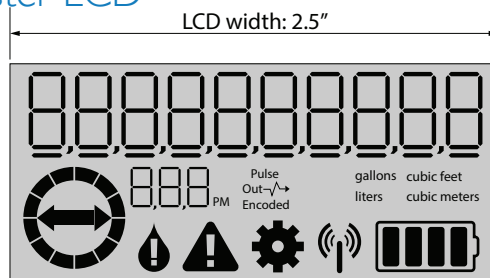
Register

- Units of Measure:
 - USG, CF, Liters & Cubic Meters (field selectable)
- Encoded Output:
 - All ME-PDEN meters ship configured to Sensus encoded protocol
 - All ME-PDEN meters are field configurable to: Neptune, AMCO & Sensus protocols
- Pulse Output:
 - Field configurable to pulse output
- Wireless Meter Reading:
 - Walk by, drive by and 3rd party capable
- Configurable via Mobile App on iOS and Android devices
- Incorporates Accuracy Data Leveling Technology which reduces non-revenue water

Battery: Field replaceable CR18505 lithium battery, sealed. Estimated 12 year life Replaceable with

Programming and Reading: Register is programmed and read using built-in Bluetooth Low Energy (BLE)

Register LCD



actual size

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Sizes & Flow Rates (in gpm)

Size	Normal	Low	Max. (cont/int)
075	1 to 20	0.25	10/20
7575 & 7575L	2 to 30	0.50	15/30
100	3 to 50	0.75	50/100
150 & 150F	5 to 100	1.50	50/100
200 & 200F	8 to 160	2.00	80/160

Model Code for Ordering

ME-PDEN -050 -CF-R/IP

Water Meter _____
ME = M & E (Meters & Electronics)

Meter Type _____
PDEN = Positive Displacement with encoded register

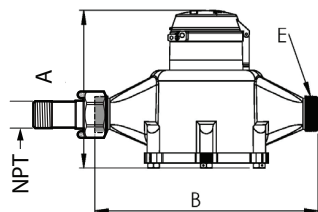
Size _____
075 = 3/4" NPT (5/8 x 3/4 meter)
7575 = 3/4" NPT (7.5" long)
7575L = 3/4" NPT (9" long)
150 = 1 1/2" NPT
150F = 1 1/2" Oval Flange
200 = 2" NPT
200F = 2" Oval Flange

Unit of Measure _____
 (omit) = US gallons
 -CF = Cubic Feet

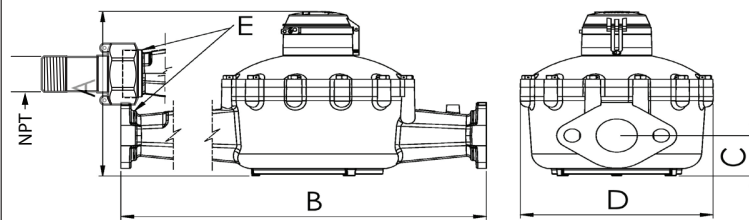
Pulse Output (see page 1 for which to choose) _____
R/IP = 1 pulse per gallon or cubic foot
R/10P = 10 pulses per gallon or cubic foot
R/10G = 1 pulse per 10 gallons

Dimensions & Weights (in inches & lbs.)

075 to 100



150 to 200



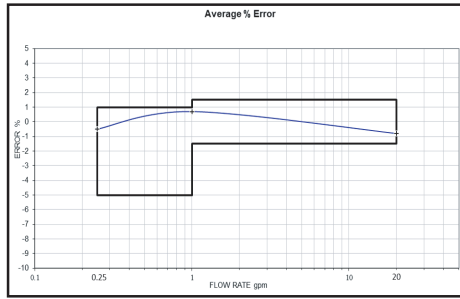
Size	NPT (male)	A	B	C	D	E	Weight
075	3/4"	5.75	7.5	1.5	4.5	1" Male NPSM	4.08
7575	3/4"	6.25	7.5	2	5.5	1" Male NPSM	5.84
7575L	3/4"	6.25	9	2	5.5	1" Male NPSM	6.29
100	1"	7.25	10.75	2.5	6.625	1.25" Male NPSM	10.25
150	1 1/2"	8.75	12.625	2.75	9	2" Male NPSM	21.49
150F	-	8.75	13	2.75	9	1.5" Oval Flange	24.8
200	2"	9.5	15.25	2.75	10	2.5" Male NPSM	29.87
200F	-	9.5	17	2.75	10	2" Oval Flange	35.6

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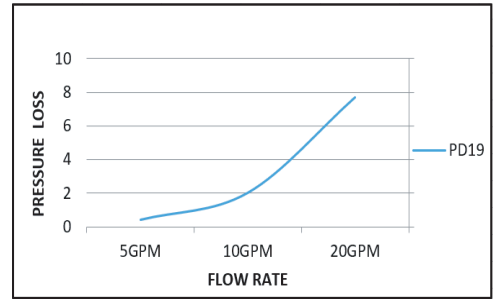
Accuracy Curves

Head Loss Curves

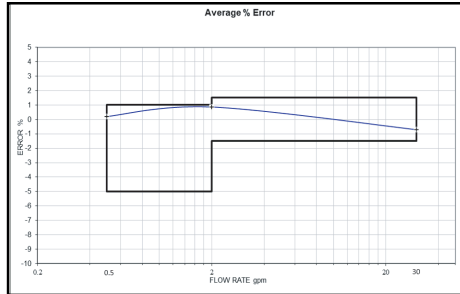
ME-PDEN-075



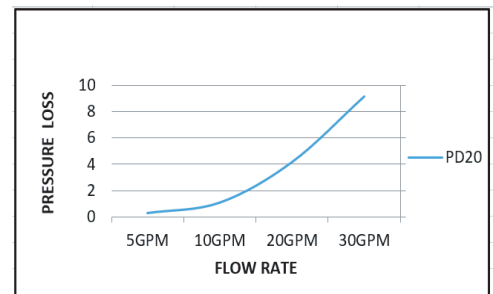
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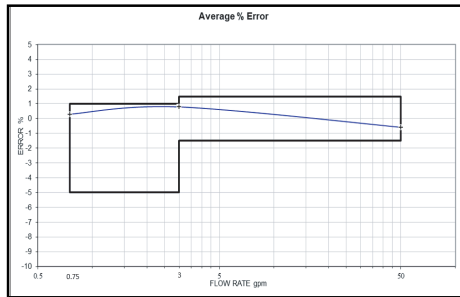
ME-PDEN-7575 & ME-PDEN-7575L



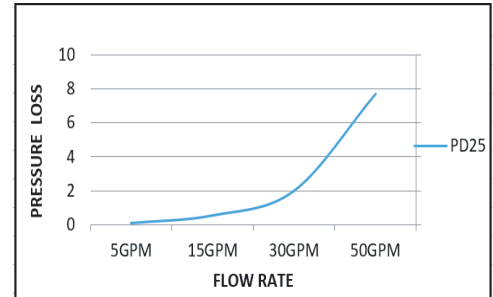
ME-PDEN-7575 & ME-PDEN-7575L



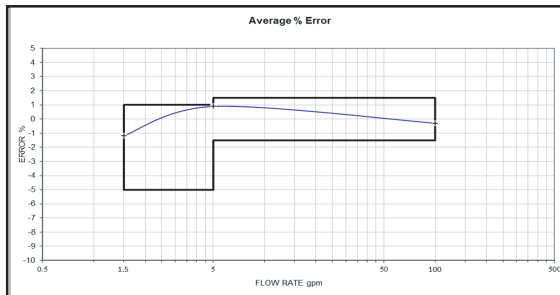
ME-PDEN-100



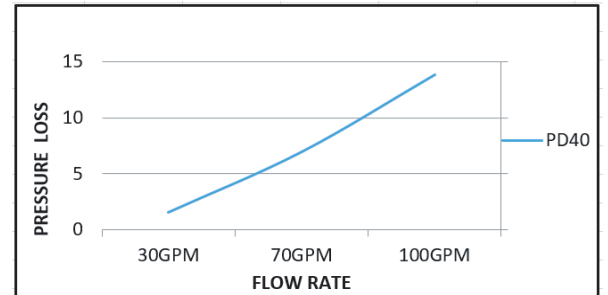
ME-PDEN-100



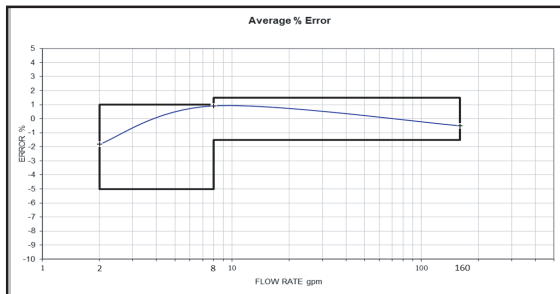
ME-PDEN-150



ME-PDEN-150



ME-PDEN-200



ME-PDEN-200

