

# High-Resolution Readings to Detect Ultra-Low Flows

Neptune® ProCoder™



The Neptune® ProCoder™ solid state absolute encoder register features a high-resolution, mechanical sweep hand to detect ultra-low flows as well as monitor direction of flow. The ProCoder's non-contact LED absolute encoding technology ensures the odometer read exactly matches the remote read. It provides a high-resolution, 8-digit remote meter reading along with leak, tamper, and reverse flow flags when connected to a Neptune R900® MIU.

- High-resolution remote meter reading
- Leak, tamper, reverse flow flags
- Detects ultra-low flows
- Easy-to-read 8-wheel mechanical odometer
- High-resolution mechanical sweep hand

## Specifications

### Materials

- Inside Set Housing: polycarbonate
- Pit Set Housing: copper shell and glass lens
- Connecting Wire: 3-lead #22 AWG
- Remote Receptacles: ABS, nylon, and polycarbonate

### Distance

- A single register may be located with up to 500 feet (152 m) of wire from receptacle or MIU.

### Environmental Conditions

- Operating Temperature: +15°F to +149°F (-10°C to +65°C)
- Storage Temperature: -40°F to +158°F (-40°C to +70°C)
- Operating Humidity: 0 to 100% (pit version)

### Register

- Warranty: 10 years

## Options

### Sizes

- Available for 5/8"-2" T-10® water meters

### Electronic Accessory Equipment

- R900® Wall and Pit RF MIUs
- CMIU™ Wall and Pit MIUs

### Data Collection Systems

- Pocket ProReader
- Advantage
- CE5320B
- MRX920™
- R900® Belt Clip Transceiver (BCT)
- R900® Gateways

### Units of Measure

- U.S. Gallons, Cubic Feet, Imperial Gallons, Cubic Metres
- 8-digit local registration
- 8-digit remote registration

## Resolution

### Register Capacity

	Size	G	ft <sup>3</sup>	m <sup>3</sup>
T-10®(Includes disc side of TRU/FLO®)	5/8", 3/4", 1"	10,000,000	1,000,000	100,000
T-10 (Includes disc side of HPPIII)	1.5", 2"	100,000,000	10,000,000	1,000,000
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1.5", 2", 3", 4"	100,000,000	10,000,000	1,000,000
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	6", 8", 10"	1,000,000,000	100,000,000	10,000,000

### High Resolution (8-digit reading)

	Size	G	ft <sup>3</sup>	m <sup>3</sup>
T-10 (Includes disc side of TRU/FLO)	5/8", 3/4", 1"	0.1	0.01	0.001
T-10 (Includes disc side of HPPIII)	1.5", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1.5", 2", 3", 4"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	6", 8", 10"	10	1	0.1

### ProCoder Registration (Per Sweep Hand Revolution)

Type	Size	G	ft <sup>3</sup>	m <sup>3</sup>
T-10	5/8", 3/4", 1"	0.1	0.01	0.001
T-10 (Includes disc side of HPPIII)	1.5", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1.5", 2", 3", 4"	10	1	0.1
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	6", 8", 10"	100	10	1

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