

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® System endpoint.

- 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 endpoint.

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

- All Neptune endpoints

Data Collection Systems

- Pocket ProReader
- Advantage
- CE5320B
- Mobile data collector
- Belt clip transceiver (BCT)
- 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 ³ | m ³ |
|---|------------------|---------------|-----------------|----------------|
| 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 ³ | m ³ |
|---|------------------|-----|-----------------|----------------|
| 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 ³ | m ³ |
|---|------------------|-----|-----------------|----------------|
| 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 |



36 Hudson Rd
Sudbury, MA 01776

800.225.4616

www.tisales.com



Metering Systems Support
978.261.7683