

# Interface with Ease for High-Resolution Metering

Neptune® ProCoder™)TC™



The Neptune® ProCoder™)TC™ features a high-resolution, mechanical sweep hand to detect ultra-low flows as well as monitor direction of flow and a custom integrated circuit design that digitally encodes the rotation of the measuring chamber. The solid state encoder provides “absolute” registration without the need for an internal battery. Through its standard two-wire interface, the ProCoder)TC allows water utilities to read remotely via inductively-coupled systems such as Sensus TouchRead®.

- “Absolute” 8-digit meter reading on display
- Easy-to-read sweep hand provides extended resolution
- Standard two-wire interface enables remote reading
- Available in inside set and pit set configurations

## Specifications

### Materials

- Inside Set Housing: polycarbonate
- Pit Set Housing: roll-sealed copper shell and glass lens
- Connecting wire: three (3) lead #22 AWG

### Wire Length

- Up to 200 feet from receptacle

### 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)

## Options

### Units of Measure

- U.S. Gallons, Cubic Feet, Imperial Gallons, Cubic Metres

### Output Configuration

- 8- or 10-digit register ID
- 4-8 billing digits

### Data Collection Systems

- Sensus TouchRead AutoGun

### Configuration

- Inside Set: Plastic register housing and an 18" pigtail for a spliced connection to existing touchpad
- Pit Set: Roll-sealed copper shell and glass lens enclosure with factory-potted touch coupler interface

## Warranty

- Neptune provides a limited warranty for performance, materials, and workmanship. See warranty statement for details.

## 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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