

Interface with Ease for High-Resolution Metering

Neptune® E-CODER™)TC™



The Neptune® E-CODER®)TC™ provides a common touch coupler interface option for Neptune's high-resolution solid state absolute encoder register. The E-CODER)TC features 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 E-CODER)TC allows water utilities to read remotely via inductively-coupled systems such as Sensus TouchRead®. In addition to the meter reading, the E-Coder)TC provides a visual readout of consumption and toggles to rate of flow every twelve seconds when the LCD display is activated.

- "Absolute" 9-digit meter reading on display
- Standard two-wire interface enables remote reading
- Available in inside set and pit set configurations
- Large, easy-to-read LCD display
- Directional flow indicator
- Rate of flow on LCD display

Specifications

Materials

- Inside Set: Polycarbonate housing and an 18" pigtail for a spliced connection to existing touchpad
- Pit Set: Roll-sealed copper shell and glass lens
- Connecting wire: 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 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"	100,000,000	10,000,000	100,000
T-10 (Includes disc side of HPPIII)	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 remote 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"	1	0.1	0.001
T-10 (Includes disc side of HPPIII)	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

