

Easy Installation, Seamless Integration

Neptune® Cellular ProCoder™)R900i™



The Neptune® cellular ProCoder™)R900i™ is designed as an all-in-one package – pairing absolute encoder technology with the reliable connectivity of Neptune’s R900® System cellular endpoint. The ProCoder register provides an easy-to-read high-resolution mechanical wheel bank and is compatible with any Neptune mechanical meter. Integrated endpoints eliminate the hassle of wiring while reliably delivering accurate data to optimize system performance, improve customer service, and support water conservation initiatives.

- Eliminate the inconvenience of endpoint programming and wiring
- Robust coverage and two-way communications using LTE-M cellular technology
- Reduce inventory with an all-in-one register and endpoint package
- Improve operations and customer service with real-time, high-resolution AMI data and advanced analytics
- Streamline testing and onsite troubleshooting with an easy-to-read odometer and high-resolution sweep hand
- Pinpoint trouble areas quickly with flags that identify leaks, reverse flow, and tampering
- Prevent tampering and environmental damage with no external wires
- Automatically recover from service interruptions with 96 days of stored data



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Endpoint Specifications

Electrical Specifications

- Endpoint Power: Lithium battery with capacitor

Endpoint Operations

- Cellular LTE-M transmissions with configurable transmit windows
- Mobile 900 MHz backup transmissions
- Verify installation via the Neptune® 360™ Field Manager tool
- 15-minute interval data with automatic back-fill
- Priority alerts

Environmental Conditions

- Operating Temperature: -22°F to +149°F (-30°C to +65°C)
- Storage Temperature: -40°F to +158°F (-40°C to +70°C)
- Operating Humidity: 100% condensing, fully submersible

Materials

- Register Housing:
 - Engineered polymer
 - Roll-sealed copper
- Lens:
 - Tempered Glass

Antennas

- 2' cellular external through-the-lid antenna
- 6' cellular external through-the-lid antenna
- 20' cellular external through-the-lid antenna

Options

Compatibility

- Available for every size Neptune mechanical meter

Units of Measure

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

Resolution & Capacity

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 1/2", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1 1/2", 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

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 1/2", 2"	100,000,000	10,000,000	1,000,000
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1 1/2", 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

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 1/2", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1 1/2", 2", 3", 4"	10	1	0.1
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	6", 8", 10"	100	10	1

Warranty

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



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