Easy Installation, Seamless Integration

Neptune® ProCoder)R900*i*™

The Neptune® ProCoder)R900*i*™ is designed as an all-in-one package – pairing absolute encoder technology with the reliable connectivity of any Neptune R900® System endpoint. The ProCoder register provides an easy-to-read high resolution mechanical wheel bank combined with flexible AMR/AMI connectivity 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 hassle of endpoint programming and wiring
- Flexible meter reading options with simultaneous AMR/AMI capabilities
- Peace of mind with access to 96 days of stored history
- Prevent tampering and environmental damage with no external wires
- Improve quality of service and billing accuracy with detailed consumption data
- Reduce inventory with an all-in-one register and endpoint package
- Pinpoint trouble areas quickly with flags that identify leaks, reverse flow, and tampering
- Streamline testing and onsite troubleshooting with an easy-to-read odometer and high-resolution sweep hand

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Endpoint Specifications

Electrical Specifications

- Endpoint Power: Lithium battery with capacitor

Transmitter Specifications:

- Two-way endpoint
- Transmissions
  - Standard mobile message
  - Standard fixed network message
  - LoRa® fixed network message (only on LoRaWAN® model)
- Transmitter Channels:
  - 50 (R900 mobile and fixed network messages)
  - 64 (LoRa fixed network message)
- FCC Verification: Part 15.247
  - Channel Frequency:
- 902 to 928 MHz
  - Frequency hopping, spread-spectrum
- Meter Reading & Flag Interval:
  - Every 15 minutes
  - Leak, Backflow, Tamper
- Data Logging Interval:
  - 96 days of hourly data

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 (Pit Set version only)

Materials

- Register Housing:
  - Engineered polymer
  - Roll-sealed copper (Pit Set version only)
- Lens:
  - Tempered Glass (Pit Set)
  - Plastic (Inside Set)

Antennas

- Internal antenna (not available on LoRaWAN)
- Optional through-the-lid antenna
- 18" coax
- 6' coax
- 20' coax

Resolution & Capacity

High Resolution (8-digit reading)

	Size	G	ft³	m³
T-10 (Includes disc side of TRU/FLO)	⅝", ¾", 1"	0.1	0.01	0.001
T-10 (Includes disc side of HPPIII)	1½", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1½", 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	ft³	m³
T-10®(Includes disc side of TRU/FLO®)	⅝", ¾", 1"	10,000,000	1,000,000	100,000
T-10 (Includes disc side of HPPIII)	1½", 2"	100,000,000	10,000,000	1,000,000
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1½", 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	ft³	m³
T-10	⅝", ¾", 1"	0.1	0.01	0.001
T-10 (Includes disc side of HPPIII)	1½", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1½", 2", 3", 4"	10	1	0.1
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	6", 8", 10"	100	10	1

Options

Compatibility

- Available for every size Neptune mechanical meter
- Handhelds with belt clip transceiver – mobile RF
- Mobile data collector RF
- Gateway – fixed network RF
- LoRaWAN gateway – fixed network

Units of Measure

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

Warranty

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

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Neptune Technology Group
1600 Alabama Highway 229
Tallassee, AL 36078
800-633-8754 f 334-283-7293

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