The Neptune® ProCoder™)R900i™ combination absolute encoder register/radio frequency meter interface unit (RF MIU) makes it simple to collect metering data using multiple modes simultaneously and features a high-resolution, mechanical sweep hand to detect ultra-low flows as well as monitor direction of flow. Its interleaved mobile and high-power fixed network messages allow for simple migration from walk-by to mobile to fixed network reading – and back again – without site visits or reprogramming. Your utility can also review an account's consumption by the hour with 96 days of profile information, along with alerts for leak or backflow. Proactively identify and resolve customer issues – heading off high bill complaints, reducing delinquent payments, and eliminating write-offs.

• Easy to install/no programming required
• Interleaved mobile and high-power fixed network messages
• Read in walk-by, mobile, fixed modes simultaneously
• 96 days of hourly account history
• Leak, tamper, reverse flow detection
**Specifications**

**Electrical Specifications**
- MIU Power: Lithium battery with capacitor

**Transmitter Specifications:**
- Two-way MIU
- Transmit Period (interleaved mobile and fixed network messages):
  - Standard mobile message every 14 seconds at 100 mW
  - Standard fixed network message every 7.5 minutes at 1 Watt
- FCC Verification: Part 15.247
- Transmitter Channels: 50 frequency-hopping, spread-spectrum
- Channel Frequency: 910 to 920 MHz
- Encoder Register Reading Interval:
  - Every 15 minutes
- 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:
  - Inside Set: 0 to 95%, condensing
  - Pit Set: 100% submersible

**Materials**
- Register Housing:
  - Inside Set: plastic polycarbonate
  - Pit Set: roll-sealed copper shell
- Lens:
  - Inside Set: plastic
  - Pit Set: glass

**Antennas**
- Standard internal antenna
- Optional through-the-lid antenna
- 18” coax
- 6’ coax
- 20’ coax

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**Resolution**

**Register Capacity**

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**Options**

**Compatibility**
- Available for ¾”-2” T-10® water meters
- Handhelds with R900® Belt Clip Transceiver - mobile RF
- MRX920™ - mobile RF
- R900® Gateways - fixed network RF

**Units of Measure**
- U.S. Gallons, Cubic Feet, Imperial Gallons, Cubic Metres

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