Quickly Communicate Critical Data

Neptune® E-CODER® Solid State Absolute Encoder

The Neptune® E-CODER® solid state absolute encoder register provides consumption data, including insight into flow direction, flow rate, and leak status – all without the need for a battery. The integrated-circuit design of the E-CODER register ensures one data source for both visual and remote reads with no possibility of mismatch.

- Provides superior water delivery insight

- Easy installation that requires minimal operator training

- High-resolution reading to detect ultra-low flows

- Leak, tamper, and reverse flow flags for improved operational efficiency

- Easy-to-read 9-digit LCD

- On-screen flow rate and flow direction for streamlined diagnostics

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Options

Sizes

• Available for all sizes and makes of current Neptune mechanical meters

Electronic Accessory Equipment

• R900 Wall and Pit Endpoints

• Cellular Wall and Pit Endpoints

• LoRaWAN Wall and Pit Endpoints

Data Collection Systems

• Pocket ProReader

• Advantage II Probe

• Trimble Ranger 3

• Trimble Nomad / R900 BCT

• Belt Clip Transceiver

• Mobile Data Collector

• R900® System Gateways

Units of Measure

• US Gallons (GPM), Cubic Feet (GPM), Cubic Metres (LPM)

9-digit local registration

8-digit remote registration

4-8 digits remote registration (TouchCoupler version)

High Resolution (8-digit reading)

	Size	G	ft³	m³
T-10 (includes disc side of TRU/FLO)	⅝" x 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

Technical Specifications

Materials

• Inside Set Housing: polycarbonate

• Pit Set Housing: copper shell and glass lens

• Connecting wire: 3-lead #22 AWG

• Remote receptacles: ABS, nylon, and polycarbonate

Distance

• A single register may be located with up to 500 feet (152 m) of wire from receptacle or endpoint.
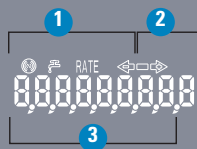
Environmental Conditions

• Operating temperature: 14°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)

Warranty

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

System Compatibility

• Compatible with Neptune R900 System. Also available as E-CODER®)R900i™ for an integrated radio solution and E-CODER®)TC for Sensus TouchCoupler compatibility.

Solar Panel **1**
Date of Manufacture **2**
LCD Display **3**

FLOW INDICATOR	**FLOW INDICATOR** Shows the direction of flow through the meter: ON — Water in use. OFF Water not in use. Flashing — Water is running slowly. (-) Reverse flow. (+) Forward flow.
LEAK INDICATOR	**LEAK INDICATOR** Displays a possible leak: OFF — No leak indicated. Flashing — Intermittent leak indicates that water has been used for at least 50 of the 96 15-minute intervals during the previous 24-hour period. On Continuously — Indicates water use for all 96 15-minute intervals during the previous 24-hour period.
RATE	**RATE OF FLOW** Average flow rate is displayed every twelve (12) seconds on LCD display.
LCD display	**LCD DISPLAY** Nine-digit LCD displays the meter reading in billing units of measure: U.S. gallons, cubic feet, Imperial gallons, or cubic metres. **1** E-CODER Basic Reading/Customary 6-digit remote reading **2** Customary sweep hand digits **3** E-CoderPLUS Reading (8-digit remote reading)

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