











### SOLID STATE ABSOLUTE ENCODER

ΚEΥ





The E-Coder PLUS features are communicated through the E-Coder protocol allowing host software platforms to interpret the data and pass the information directly to billing packages, CIS screens, and operation and maintenance reports. The E-Coder PLUS features enhance customer service and improve operational efficiencies for water utilities.

The E-Coder is available in two different configurations - inside set meters and pit meters. For inside set applications, the E-Coder will be housed in our field-proven plastic encoder register housing less the mineral oil. For pit set applications the E-Coder will be housed in the same field-proven glass lens and copper can enclosure used on our current direct read registers.

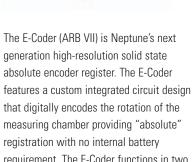
#### WARRANTY

Neptune provides a 10-year limited warranty with respect to its E-Coder solid state absolute encoder register for performance, materials, and workmanship. "Absolute" 9-digit meter reading on display Up to 8-digit remote meter reading\*

- Batteryless functionality
- Pit set version: Roll-sealed copper shell and glass lens, oil-free design
- Inside set version: Plastic enclsoure, oil-free design
- True point-of-use leak detection\*
- Tamper detection\*
- Reverse flow detection\*
- LCD leak indicators
- Directional flow indicator
- Rate of flow on LCD display

## Enhanced "customer care" **(EY BENEFITS**

- · Leak history/diagnostics
- Proactive leak notification
- Increased operational efficiencies
  - · Work order reduction for high water bill inquiries
  - Prioritization of meter maintenance
  - · Drought management
  - · Reduction of water loss through proactive notification of water leaks
- Tamper management
  - · Identification & prioritization of potential tamper situations
- When connected to second generation R900.



requirement. The E-Coder functions in two modes: E-Coder BASIC and E-Coder PLUS. The E-Coder BASIC mode functionality is the same as ProRead (ARB VI) featuring programmability up to a 10-digit ID number, 3 user characters, and 3-6 digit meter reading. In addition to the meter reading, E-Coder provides a visual readout on rate of flow every six seconds when the LCD display is activated. When connected to Neptune's R900\* radio MIU, the E-Coder automatically operates in E-Coder PLUS mode, providing a high resolution, 8-digit remote meter reading, and value-added features including leak detection, tamper detection, and reverse flow detection. True point-of-use leak detection is provided by monitoring a 24-hour period in fifteenminute intervals. Tamper detection is

provided by reverse flow detection and the number of days of zero flow over the

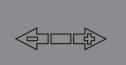
previous 35 days.

- Solar Cell 1
- Leak Icon (2)
- Flow Indicators (3)
- Date of Manufacture 4
  - LCD Display 6





Located at the top of the E-coder, supplies power for the LCD panel (light activated.)



#### FLOW INDICATOR

Shows the direction of flow through the meter:

Water in use. Water not in use. Water is running slowly.

FLASHING (-) (+) Reverse flow. Forward flow.



#### LEAK INDICATOR

Displays a possible leak:

No leak indicated.

Intermittent leak indicates that water has been used for at least 50 of the 96

15-minute intervals during a 24-hour period.

Indicates water use for all 96 15-minute intervals during a 24-hour period.

RATE

#### **RATE OF FLOW**

ON CONTINUOUSLY

Average flow rate is displayed every six seconds on LCD display.



#### **LCD DISPLAY**

Nine-digit LCD displays the meter reading in billing units of measure: U.S. gallons, cubic feet, Imperial gallons, or

- 1 E-Coder™ Basic Reading/Customary 6-digit remote reading
- Customary sweep hand digits
- E-Coder PLUS Reading (8-digit remote reading)
- Testing units used for diagnostics
- Extended reading units
- Customary billing units

# *FECHNICAL SPECIFICATIONS*

#### Materials

- Inside Set Housing: Polycarbonate
- Pit Set Housing: Copper shell and glass lens
- Connecting wire: 3-lead #22 AWG
- - A single register may be located with up to 500 feet (152m) of wire from receptacle or MIU.
  - Two networked registers can be located with up to 300 feet (91m) of wire from receptacle or MIU
- Register: 20 years (10/10)
- R900 MIU: 20 years (10/10)
- R900 Battery: 20 years (10/10)

OPTIONS

- Sizes
  - · Available for all sizes and makes of current Neptune meters.
- Electronic Accessory Equipment
  - R900 Wall & Pit Radio MIUs
- Data Collection Systems
  - · DAP Handhelds Walk-by RF
  - EZDrivePLUS™ Mobile RF
  - EZNet<sup>™</sup> Fixed-network RF for targeted **C&I** applications
- Units of Measure: U.S. Gallons. Cubic Feet, Imperial Gallons, Cubic Metres
- 9-digit local registration
- 8-digit remote registration
- 4-8 digits can be communicated for billing.

REGISTRATION AND REGISTER CAPACITY





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