

# Read With the Highest Success. Every. Single. Day.

Neptune® ProCoder™)R450i™



The Neptune® ProCoder™)R450i™ combines the high-power, two-way radio frequency (RF) R450™ meter interface unit (RF MIU) with the ProCoder™ solid state absolute encoder into one integrated package and features a high-resolution, mechanical sweep hand to detect ultra-low flows as well as monitor direction of flow. Designed for pit applications, the high-power RF transmission reduces the number of collectors, lowering your utility's overall deployment cost.

The standard R450 MIU is programmed to deliver meter usage and 24-hour consumption profile data daily.

- Optimum read success rates and security with licensed frequencies
- Priority alarms for continuous leaks, reverse flows
- High-power RF reduces number of collectors needed
- Delivers meter usage/24-hour consumption profile data daily

## Specifications

### Electrical Specifications

- MIU Power: Lithium battery with capacitor

### Transmitter Specifications

- Transmit Period: standard configuration is a midnight meter reading and 24-hour usage/ consumption data – daily
- Operational Frequency: licensed 450-470 MHz band
- Output Power: meets FCC Part 90

### Environmental Conditions - MIU and ProCoder

- Operating Temperature: +15°F to +149°F (-10°C to +65°C)
- Storage Temperature: -40°F to +158°F (-40°C to +70°C)
- Operating Humidity: 100% submersible

### Materials

- Register Housing: roll-sealed copper shell
- Lens: glass

### Antennas: through-the-lid

- 18" coax
- 6' coax
- 20' coax

## Options

### Compatibility

- Available for all sizes and makes of current Neptune meters

### Units of measure

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

## Warranty

- 20 years (10/10); refer to Warranty Statement

## Resolution

### Register Capacity

	Size	G	ft <sup>3</sup>	m <sup>3</sup>
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)	1.5", 2"	100,000,000	10,000,000	1,000,000
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1.5", 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

### High Resolution (8-digit reading)

	Size	G	ft <sup>3</sup>	m <sup>3</sup>
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)	1.5", 2"	1	0.1	0.01
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1.5", 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

### ProCoder Registration (Per Sweep Hand Revolution)

Type	Size	G	ft <sup>3</sup>	m <sup>3</sup>
T-10	5/8" - 2"	0.1	0.01	0.001
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	1.5", 2", 3", 4"	10	1	0.1
HP Turbine (Includes FS Turbine, HPPIII, Turbine Side of TRU/FLO)	6", 8", 10"	100	10	1



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