

## TR4 Transceiver

Long-Range Wireless Transceiver for Reliable Metering



The **TR4 Transceiver** transforms almost any pulse or encoded meter into a smart, cloud-connected device. It seamlessly integrates with the NextCentury platform for accurate, real-time meter data.

### Seamless Wireless Integration

The TR4 features NextCentury Connect™ technology for strong, reliable communication in high-density apartments and large commercial properties. It is a drop-in replacement for previous NextCentury transceivers, fully compatible with earlier generation Gateways and Repeaters.

### Smart Metering, Simplified

The TR4's intuitive design enables easy mounting, simple wiring, and quick configuration without requiring an external programmer. LED indicators provide instant feedback to verify meter connections and ensure successful installation.

### Meter+™ Technology

Meter+™ Technology enables the TR4 to connect with nearly all modern submeters. Its Smart Pulse detection identifies and corrects ghost pulses caused by faulty reed switches, ensuring accurate readings.

### Key Benefits

- Mounts easily to any surface
- Works with pulse & encoded meters
- Two-way wireless communication
- Simple installation
- Instant feedback for quick diagnostics
- Seamless integration with other NextCentury products
- 10-year battery life
- Field replaceable battery
- Compact, durable design
- Quick setup via mobile app

### Warranty

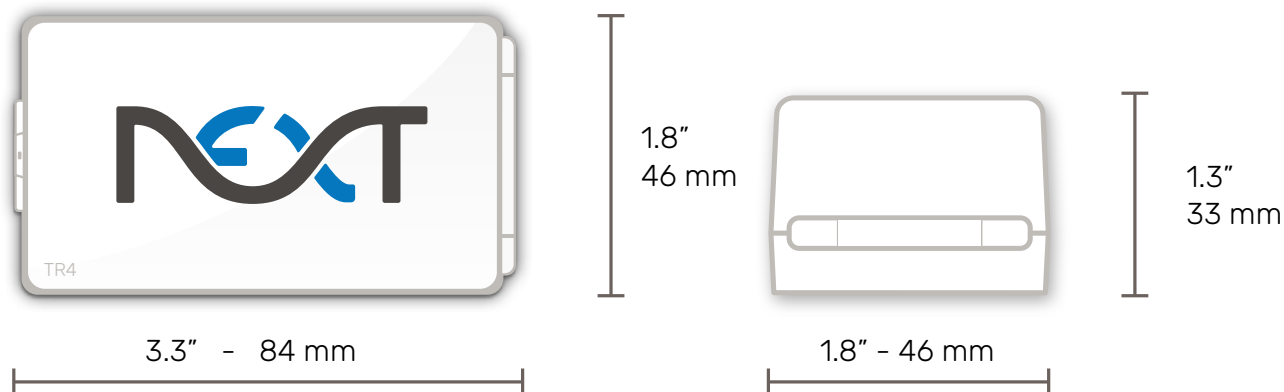
- 3-year standard warranty

# Specifications & Installation Guide



## Specifications

### Dimensions



### Approvals

FCC ID: 2AB8I-TR4  
IC: 20949-TR4

### Wireless Communication

Two-way NextCentury RF Connect™  
902-928 MHz Unlicensed Band

### Meter Compatibility

Pulse or encoded meter types  
Single model supports all configurations

### In-Field Configuration

Simple meter configuration—no external programmer required

### Battery

Preinstalled, field-replaceable CR18505  
Estimated 10-year battery life

### Operating Environment

20°C to 60°C (-4°F to 140°F)  
Should be installed in an indoor, dry environment

### Warranty

Next Meters warrants the TR4 Transceiver to be free from defects in materials and workmanship for a period of three years from date of manufacture when installed in accordance with these instructions and with limitations as detailed in the complete warranty.

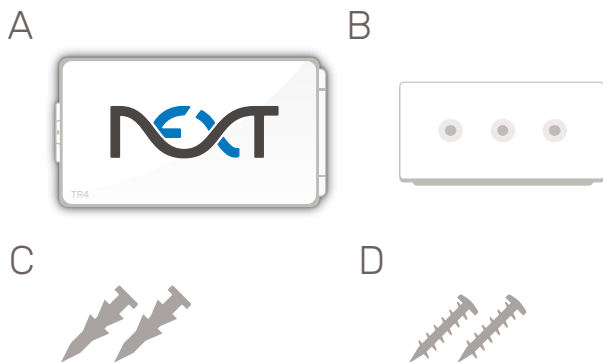
Due to continuous product improvement and the need to comply with evolving regulations, Next Meters reserves the right to modify product specifications without prior notice.

# Specifications & Installation Guide



## Installation

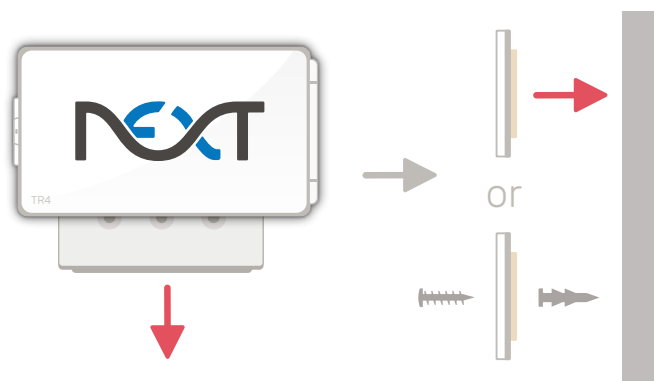
### Package Contents



- A) TR4 (Qty: 50)
- B) Mounting Plate (Qty: 50)
- C) Sheetrock Anchors (Qty: 100)
- D) Screws #6-20 (Qty: 100)

### Mounting on the Wall

Detach the mounting plate from the Transceiver, secure it with the included hardware, and slide the Transceiver back onto the plate.



### Mounting on the M201 & MJ20 Meters

The TR4 can also be mounted directly onto M201 & MJ20 meters. Attach the mounting plate (included with meters) to the meter, then slide the Transceiver onto the plate until it locks in place.

### Compatible Pulse Output Meters

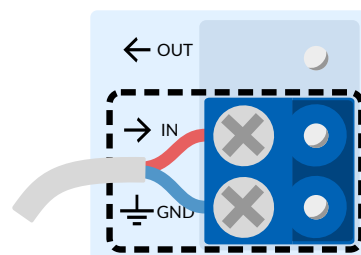
- Passive pulse sensing (including reed switch, solid-state relay, contact relay, open-drain types)
- Active voltage sensing (max. 16 VDC)

### Compatible Encoded Output Meters

- Neptune (Including ProRead, ECoder, and ProCoder register models)
- Sensus UI-1203 (Includes most meter models, from Sensus, Hersey, Mueller, Master Meter, Badger, Kamstrup, Elster, Metron-Farnier, and Zenner)
- GWF ECO (Includes all GWF encoder meters)
- Elster/AMCO K-Frame (Includes most meter models, from Elster, AMCO, ABB and Kent)

### Pre-installed Pulse Connector

For meters with a pre-installed pulse connector, attach it to the labeled IN and GND posts on the Transceiver.

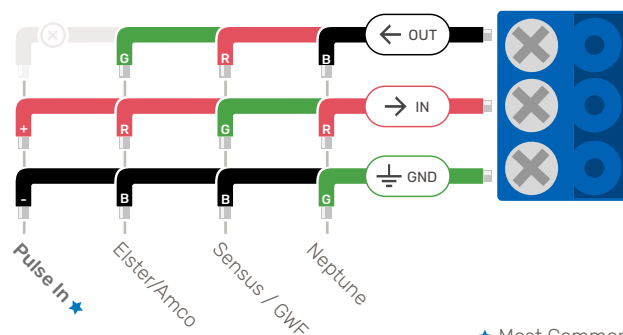


### Meter Wiring

Strip meter wire ends to 3/16" (5 mm). Insert stripped wire ends into the blue terminal connector and tighten securely using a Slotted 3mm or Phillips screwdriver.

For meters prewired with 2-pole terminal connector, remove the 3-pole connector and use meter's connector, installing on the bottom two pins.

### Wiring Guide



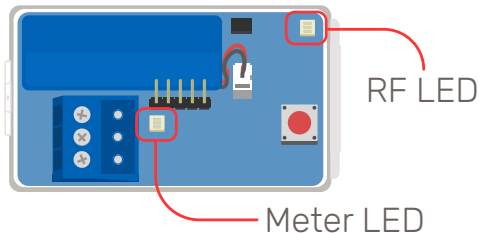
★ Most Common



## Installation (cont.)

### LED Indicators

The TR4 features two separate LED indicators with simple color-coded feedback.

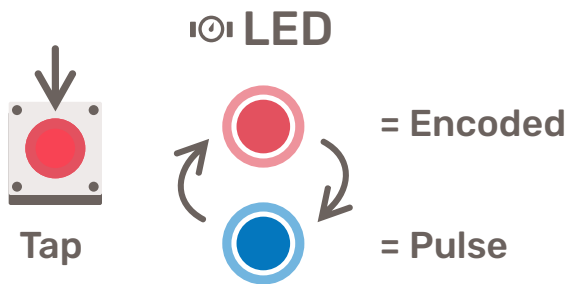


### Configuring Meter Type

Press and hold the Test Connect button for 5 seconds to enter Configuration Mode. The Meter LED will light up to indicate the current meter configuration.

### Toggle Pulse or Encoded

Tap the Test Connect button to switch between Pulse Meter (blue) and Encoded Meter (red). After 5 seconds, the selected meter type is confirmed.



### Pulse Meter Configuration

To configure pulse, enter configuration mode. If the Meter LED is solid blue, the TR4 is configured for a pulse meter. After exiting configuration mode, a pulse from the connected meter is indicated by a fast blue blink of the Meter LED.

To reset pulse count, switch meter modes then set meter mode back to Pulse Meter (blue). Record the meter's dial read as the new IMR (Initial Meter Read).

### Encoded Meter Configuration

To verify which meter type is currently configured, enter configuration mode. If the Meter LED is solid red, the TR4 is configured for an encoded meter.

To verify meter connection, Press the Test Button. A green blink confirms a successful read; a red blink means the meter couldn't be read and wiring should be checked.

### Programming

Use the NextCentury website or NCSS mobile app to set up and configure properties, units, and meters before installation. Scan the barcode on the TR4 to associate the Transceiver to the meter it is reading.

After programming, the connected Gateway will automatically sync and communicate with the TR4.

### Wireless Connection LED Indicators

The RF LED indicator provides feedback to easily check that the TR4 is within range of the property's Gateway (either directly, or through Repeaters).

Tap the Test Connect button. The TR4 RF LED blinks red rapidly while transmitting and blinks green twice if a response from the Gateway is received.

### Wireless Troubleshooting

If the RF LED doesn't blink green after tapping Test Connect, the TR4 isn't receiving a response from the Gateway. Ensure it's programmed to the property and the Gateway is online.

Try multiple times. If a response is eventually received, or if moving the TR4 closer to the Gateway helps, a Repeater may be needed to strengthen the network.

### Contact Information

For additional information or assistance, please visit [support.nextmeters.com](https://support.nextmeters.com) or contact our Product Support Team:

(844) 538-8203

[support@nextmeters.com](mailto:support@nextmeters.com)