



Telog PR-32A/iA

WITH TRIMBLE UNITY



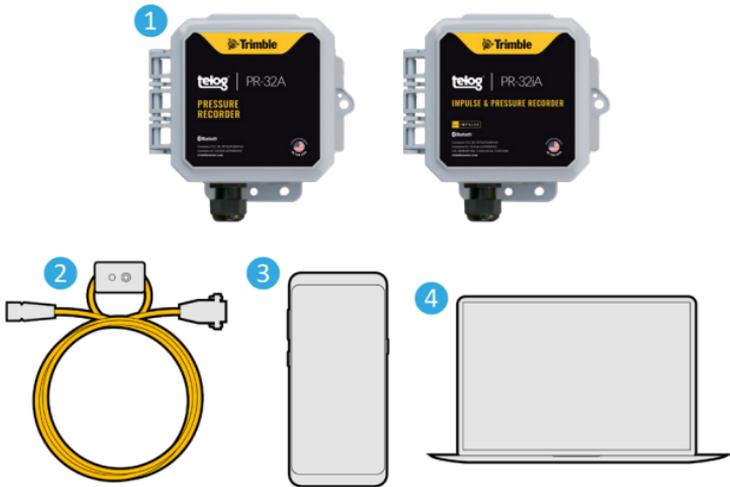
OUT-OF-THE-BOX steps to commission and install the Telog PR-32A/iA with Trimble Unity GIS-based Cloud and mobile software.

OVERVIEW

The Telog® Pressure Recorder (PR) models PR-32A and PR-32iA are wireless, battery-powered single-channel pressure recorders that are used to measure and record water pressure and then transfer the data automatically to the application over a cellular network. Telog PR-32iA also measures and records high-resolution impulse data.

The Trimble Unity application provides the capability to view and analyze pressure data, configure and manage the PR-32A/iA, as well as manage monitoring sites. Make sure you set up an account with Trimble Unity before installing PR-32A/iA onsite.

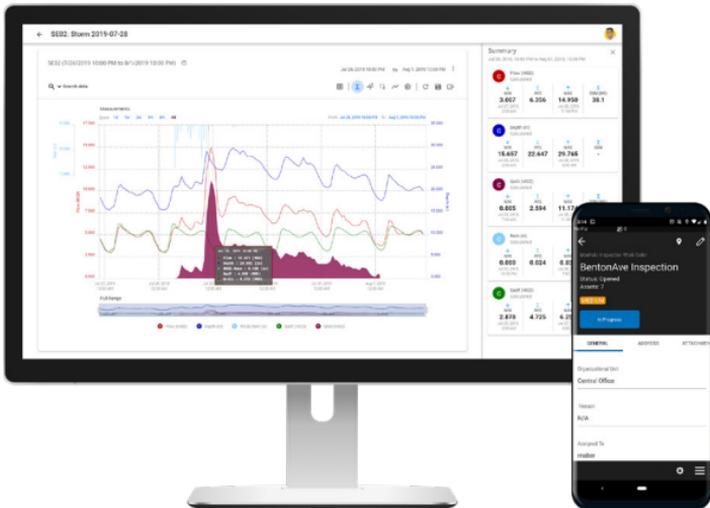
The PR-32A/iA is shipped in a dormant state. Please follow the instructions outlined in this Quick Start Guide to activate the device and ensure proper operation.



Item	Description
1	Telog PR-32A/iA
2	Communication/Tamper Switch Cable
3	Trimble Unity on mobile device
4	Trimble Unity on PC/tablet
5	Sensor (not shown)
6	Antenna (not shown)

WHAT YOU NEED TO GET STARTED

- Telog PR-32A/iA – Self-contained pressure recording telemetry unit with an integrated wireless modem.
- Communication/Tamper Switch Cable CU-CTS (yellow cable) – Used to force a communications call (also known as ‘tampering a call’). *Ordered separately.*
- Antenna – Used to transmit the wireless cellular signal between the PR-32A/iA and a cellular tower. *Ordered separately.*
- Sensors – Used to deliver data to the RTU.
 - PT-DS – Field/user replaceable sensor for PR-32A. *Ordered separately.*
 - PT-30b – Factory installed and calibrated sensor for PR-32iA impulse recorder. *Ordered separately, shipped pre-installed from the factory.*
- Trimble Unity Mobile App – Used to install and view the data for PR-32A/iA. The mobile application can be downloaded from the App Store on Android/iOS devices. Please ensure you have a Unity account set up and can log in to the mobile app before beginning the installation process.



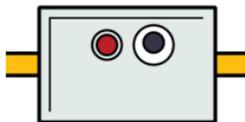
HOW TO INSTALL AND COMMISSION A PR-32A/IA

Set Up a Work Order Using Trimble Unity

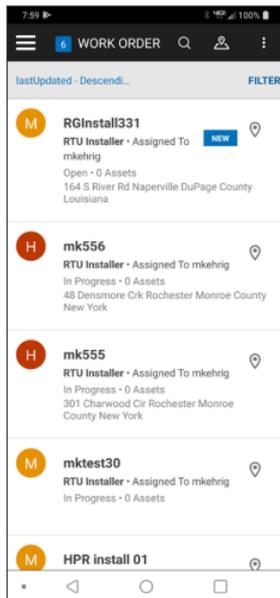
1. Go to: <https://app.trimbleunity.com/> on a Google Chrome browser.
2. Login to your **Trimble Unity** account.
3. On the **App Selector** screen, click on '**RTU Installer**'.
4. Click on the '+' sign on the bottom right of the screen to create a new Work Order (WO).
5. Fill in the **required information** and assign the WO to the crew that will do the installation.
6. Click on '**Create**' to save and issue the WO.

Set Up PR-32A/iA in the Field

1. Connect the **Antenna** to the PR-32A/iA:
 - a. Unscrew the **gray waterproof cap** from the PR-32A/iA antenna port.
 - b. Insert the **Antenna connector** into the port and hand-tighten the locking collar.
 - c. Set the **location** of the attached antenna in accordance with the type of antenna and the instructions.
2. **Tamper a Call** to activate the device when you get to the field:
 - a. Unscrew the **black waterproof cap** and connect the **Communication/Tamper Switch Cable** to the PR-32A/iA using the rounded 5-pin connector end. Rotate to align the pin groove with the notch. Tighten the locking collar to ensure a secure connection.
 - b. Press and hold the **Tamper Switch** on the cable for 5 seconds until the LED turns **solid red** (a call has been initiated). During the call, the LED will **flash off once per second**. When the call is finished, the LED will return to **blinking once every five seconds**. The RTU has exited dormant mode.

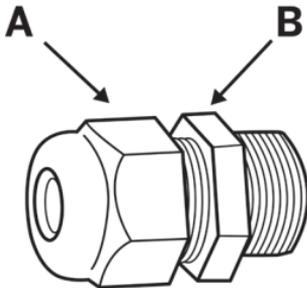
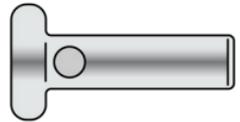


3. Complete the **WO** issued previously by **creating a new monitoring site** in the field.
4. On a **mobile device**, run the Trimble Unity app and log in.
5. On the **App Selector** screen, click on '**RTU Installer**'.
6. Select the correct **WO** to begin the PR-32A/iA installation.
7. Click on '**In Progress**' once the WO is displayed.
8. Click on '**Install RTU**' to bring up the installation form.
9. Click on '**Yes**' to confirm it is a new site.
10. Fill in the details for **Site Type (Pressure Recorder)**, **Site Name**, **Serial Number** and **Time Zone** for the PR-32A/iA that is being installed. All other fields are optional.
11. Click on '**CAPTURE**' to use the current location as identified by the mobile device GPS to associate with the PR-32A/iA. Site association can also be done using a pin on the 'MAP'.
12. Click on '**Install**' to create the new monitoring site and associate the PR-32A/iA with the site location captured previously. A confirmation message should be displayed on the screen once the site has been created successfully.
13. **Tamper a Call** (as outlined in step 2) to verify whether the PR-32A/iA can communicate successfully.
14. Once the call is completed, click on '**Verify**' in the Trimble Unity application to determine whether the call was successful. If the call was unsuccessful, please **Tamper a Call** again. If subsequent call attempts are unsuccessful, contact Trimble® Water Support.
15. Once the call has successfully completed, remove the **Tamper Switch cable**, replace the waterproof cap on the PR-32A/iA, and hand-tighten.
16. Click on "✓" in the upper right corner of the Trimble Unity application to save the installation form for your records.



INSTALL THE PR-32A/IA IN THE FIELD

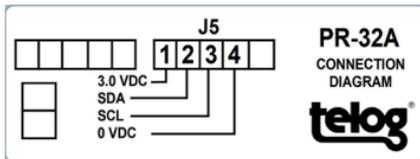
1. Open the lid of the PR-32A/iA housing to connect the sensor.
 - a. Unscrew the **cord grip (A)** from the sensor port.
 - b. Remove the **waterproof plug** from the cord grip.
 - c. Feed the **sensor cable** through the cord grip; allow only 1/4" or less of the cable sheath to protrude inside the housing.



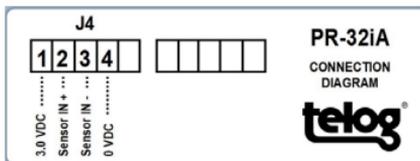
- d. Terminate the **sensor wires** per the **Connection Diagram** inside the lid and the information provided with the sensor.

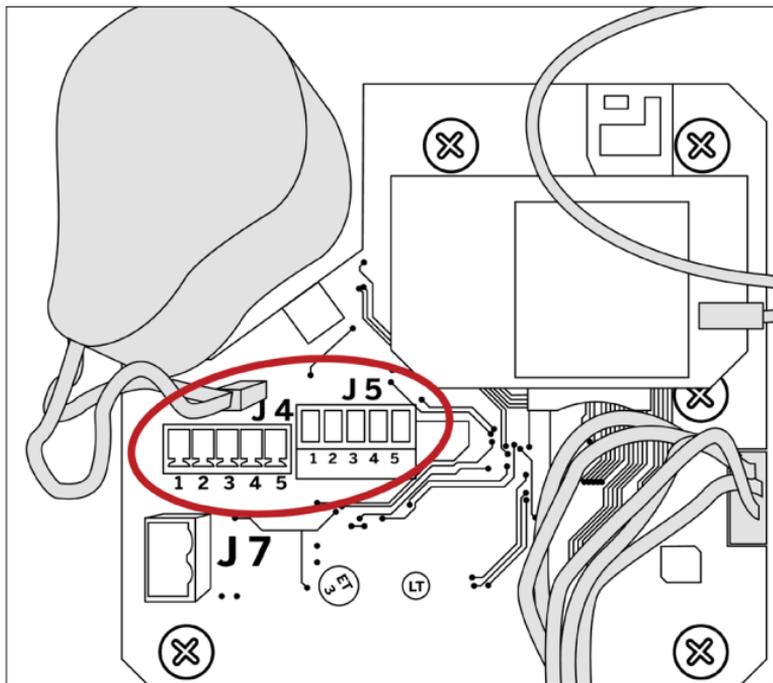
Pressure Recorder Connection Diagram

PR-32A



PR-32iA





- e. Secure the **wire leads** by tightening the terminals with a 1/8" flat head screwdriver.
 - f. Secure the cable and provide a water-tight enclosure seal by tightening the **cord grip (A)** around the cable. Use a 24mm wrench on the outside of the housing on **cord grip (A)** and another wrench to hold the **nut (B)**. Use a max torque of 35 LBF-IN. Overtightening could damage the cord grip.
2. Prepare **PR-32A/iA** for the onsite installation in the field:
- a. Ensure the **PR-32A/iA** housing lid is securely closed and both latches have snapped shut.
 - b. Ensure the **sensor** connection and the external **antenna** connection (PR-32iA only) are tight.



- c. Ensure the **RTU** is in a dry place.
 - d. Verify that **data** is being logged by the PR-32A/iA from the sensor.
 - e. Verify that **calls** are being completed.
3. Mount the **PR-32A/iA** onsite using your company's standard installation procedure for pressure recorders.



Find more information about the Telog PR-32A and PR-32iA at www.trimblewater.com

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