



Telog PFE-32A

Pulse Frequency Event Recorder

WITH UNITY REMOTE MONITORING



OUT-OF-THE-BOX steps to make a wake-up call to Telog PFE-32A. Install and configure Telog PFE-32A with Unity Remote Monitoring GIS-based Cloud and mobile software.

Overview

The Telog® Pulse Frequency Event Recorder PFE-32A is a battery powered, single-channel Remote Telemetry Unit (RTU) that uses an integrated antenna and wireless cellular-based modem to communicate with a Trimble® Unity application. The RTU can be installed above or below ground in harsh environments. The RTU collects, stores, and wirelessly transmits data to a Trimble application that provides reporting and analysis tools, workflows used to monitor sites, and generates alarm notifications.

The PFE-32A monitors the output of a device collecting data that is being measured and recorded in user-defined time increments

The PFE-32A provides remote monitoring for:

- Pulse devices, such as:
 - Transfer points in water/wastewater networks
 - Bulk flow meters in water/wastewater and stormwater networks
- Event monitoring applications, such as:
 - Pump run time, float switches, and power failure

Tellog PFE-32A is shipped in a dormant state; use this Quick Start Guide to make a wake-up call.



Item	Description
1	Tellog PFE-32A
2	Trimble Unity on mobile device/tablet

What You Need

- **Tellog PFE-32A** – The PFE-32A includes a cellular modem, antenna, process signal conditioning, data recorder and battery contained in a small IP68 NEMA 6P enclosure
Size: 4”L x 4”W x 3”H
Weight: 2.5 pounds
NOTE: The device is Bluetooth enabled when it is shipped.
- **Trimble Unity RM on mobile** – install Trimble Unity RM software on a mobile device/tablet to provide remote access to PFE-32A data and configuration from the Cloud

Before You Start

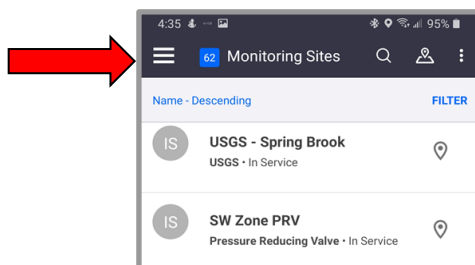
- Have the PFE-32A and a mobile device/tablet on hand
- Ensure you can log into the Trimble Unity mobile application

Add PFE-32A to the UNITY APP


NOTE: Tap refers to touching a mobile device screen to make a selection.

NOTE: Screen captures are examples of the interface, your device and data will be different.

1. Launch the **Unity Android** or **iOS mobile app** from your **mobile device/tablet**.
2. Enter your **organization**, tap on **Next**.
3. Enter your **username** and **password**, tap on **Sign In**.
4. Tap on the **menu icon** (☰) on the **Monitoring Sites** screen.

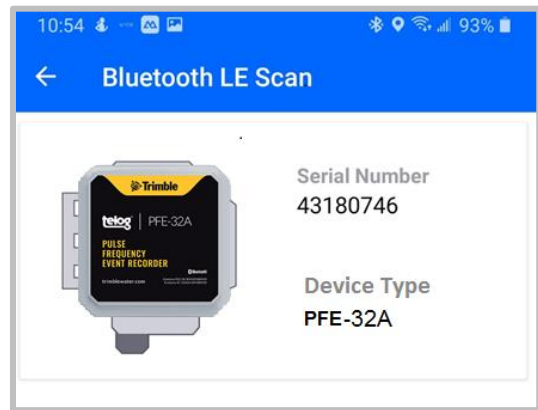


5. Tap on **RTUs** to display the list.

6. Tap on the + sign  (bottom of the screen) to display the **Add a new RTU** screen.
7. Ensure **Bluetooth** is selected.
8. Select one of the three ways to **Tamper a Call** (connect the device to the app using a cell call):
 - **Scan Bluetooth**: Tap on **Next** to initiate a Bluetooth scan of Bluetooth enabled devices within 20' of the immediate area.
 - **Serial Number**: Enter the device serial number in the Serial Number text box, tap on **Next**.
 - **Scan Barcode**: Tap on **Scan** with the serial number text box empty. Hold the **Scan Barcode** screen facing the device **barcode**, ensure the **barcode** is inside the viewfinder rectangle and **scan** for up to 30 seconds until the app populates the text box with the serial number.

9. The **Bluetooth LE Scan** screen displays a picture of the device and ID information:

- If the correct **RTU** is displayed, tap on the **RTU**. Ensure the correct **RTU** is being added, go to step 10.
- If the correct **RTU** is not displayed, tap on the header left arrow, begin the process again. Try a different method.




10. Tap on **Confirm**.

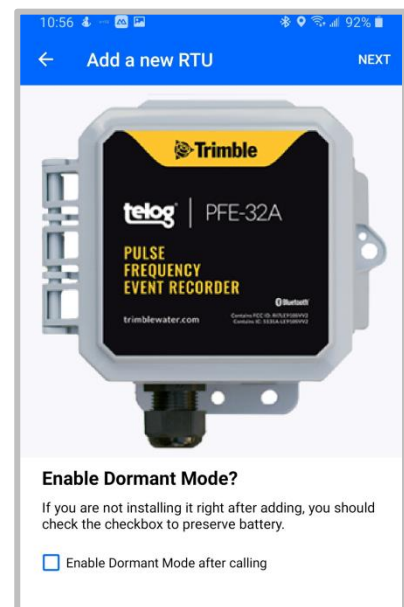
11. Determine whether to **Enable Dormant Mode?**:

- If the **RTU** is being installed immediately, do not select **Enable Dormant Mode after calling**, go to step 12.
- If the **RTU** is not being installed immediately, select **Enable Dormant Mode after calling** to preserve the battery after activating the device.

12. Tap on **Next**. The **device** is calling to perform a **Tamper** via **Bluetooth**, register the **device**, and add to the list of **RTUs**.

- If the **verification** is **successful**, a **Communication Verified** message is displayed. If **Enable Dormant Mode after calling** was selected, **dormant mode** will be applied. Go to step 13.

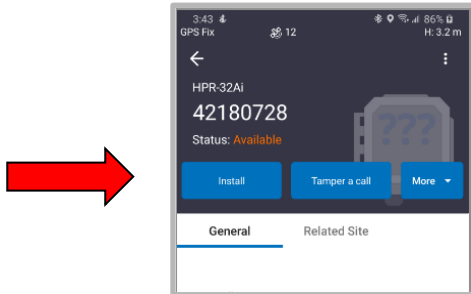
- If the **verification** is **unsuccessful**, a **Communication failed** message is displayed and an option to try again. Tap on  . If repeated attempts fail, contact Trimble Unity Support.



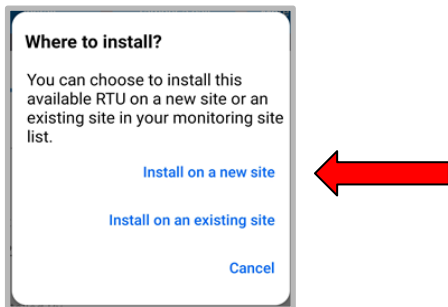
13. Tap on **Done**.

Assign a Device to an App Site

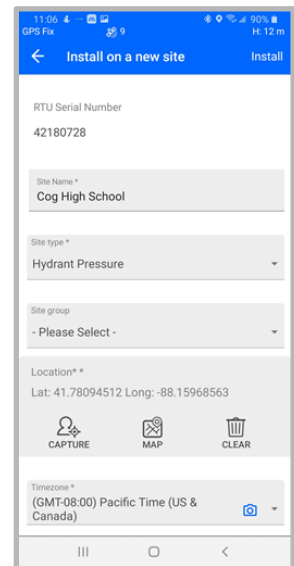
1. On the **RTU details** screen for the new **Recorder**, tap on **Install**.



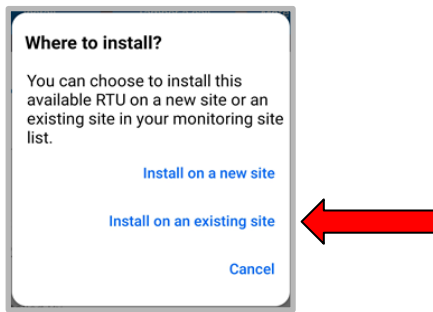
2. Are you assigning a **device** to a **new site** or an **existing site**:
 - a. Install a device on a **new site**, go to step 3.
 - b. Install a device on an **existing site**, go to step 6.
3. Tap on **Install on a new site**.



4. On the **Install on a new site** screen, enter:
 - **Site Name***: the name of the site.
 - **Site Type***: tap on the **down arrow**, select site type.
 - **Site Group**: tap on the **down arrow** and select the **Group**.
 - **Location* ***:
 - Tap on **Capture** to enable the **GPS** location, or tap on **Map** to select a location on the map.
 - Tap the **check mark** in the header to **save** the selections.
 - **Timezone***: tap on the **down arrow**, select the **Timezone** where the **RTU** is being installed.
 - **Custom fields and notes**: optional and can be added later.
5. Go to step 12.



6. Tap on **Install on an existing site**.



7. Tap on the **Select site*/Please** down arrow to display the list of **Select Sites**.

8. Tap on the **site** to install the **RTU**.

9. Determine whether or not you are replacing an **RTU**:

a. To install on an **existing site without an RTU**, go to step 10.

b. To install on an **existing site and replace an RTU**, the **Replace current Recorder?** message is displayed, select **Copy settings from existing Recorder**.

i. Tap on **Yes, replace it**.

ii. Tap on **Confirm**.

- If the system **can copy the settings**, confirm they are **correct**, go to step 12.

- If the system **cannot copy the settings** or they are **not correct**, go to step 10.

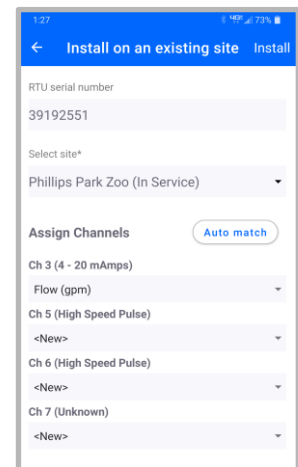
10. Tap on **Assign Channels**  to display a list of **Channels**.

11. Tap on each **Channel (Ch #) down arrow**, select the appropriate value (if not already displayed) until all **Channels** to be used are assigned.

12. Tap on **Install**. A **confirmation message** is displayed.

13. Tap on **Tamper a Call** in the header.

14. **Tamper a Call** by performing one of the **Tamper** methods described in **step 8** in the previous section [Add PFE-32A to the UNITY APP](#).

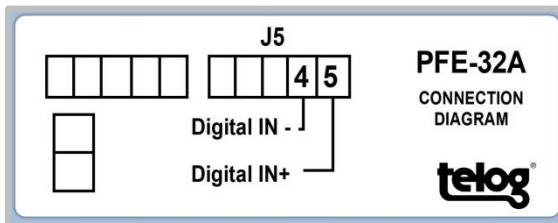
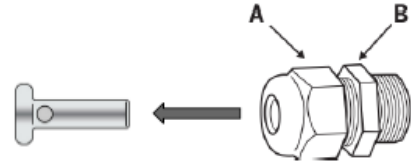


NOTE: For detailed information regarding channel configuration, refer to the Unity app Help option to access the online Trimble Unity User Guide.

Connect the Sensor/Meter

The PFE-32A recorder monitors a pulse or an event input. Only one sensor channel type can be monitored at a time.

1. Open the **cover** of the **RTU housing**.
2. Unscrew the **cord grip (A)** from the **sensor port**.
3. Remove the **waterproof plug** from the **cord grip**.
4. Feed the **input device cable** through the **cord grip**;
only allow 1/4" or less of cable sheath to protrude inside the housing.
5. Terminate **wires** per the **Connection Diagram** label inside the cover.



6. Tighten **terminals** with a flat head screwdriver.
7. Tighten the **cord grip (A)** using a 24mm wrench and another wrench to hold the **nut (B)**. Use a max torque of 35 LBF-IN. Overtightening could damage the cord grip.

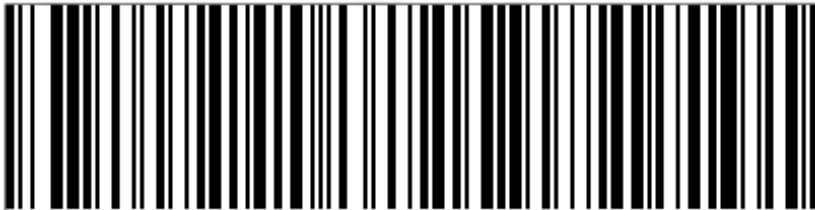
Install the PFE-32A in the Field

Prepare **PFE-32A** for on-site installation:

1. Ensure the **housing cover** is **closed** and the **latches** have **snapped shut**.
2. Ensure the **input device connection** is **tight**.
3. Verify that **data** is being **communicated**.
4. Verify that **calls** are being **completed**.
5. Mount the **RTU** onsite using your company's standard installation procedure for a **Recorder**.



Find more information about the
Telog PFE-32A at trimblewater.com



PFE-32_A-QSG-V1

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