



Telog iLR-32A

Current Loop Recorder

WITH UNITY REMOTE MONITORING



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

Overview

The Telog[®] Current Loop Recorder model iLR-32A is a wireless, battery powered single-channel 4-20 mA Current Loop recorder that continuously monitors the data from an input device, such as a meter or process instrument. The Current Loop Recorder collects data in user-defined time increments, and then transfers the data automatically using an integrated antenna over a cellular network.

The Trimble[®] Unity application provides the capability to view and analyze Current Loop data, configure and manage the iLR-32A, as well as manage monitoring sites. Ensure you have an account set up with Trimble Unity Remote Monitoring before installing Telog iLR-32A on-site.

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



Item	Description
1	Telog iLR-32A
2	Trimble Unity on mobile device/tablet

What You Need

- **Telog iLR-32A** – The iLR-32A includes a cellular modem, antenna, process signal conditioning, data recorder and battery contained in a small IP68 rated 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 a mobile device** – install Trimble Unity RM software on a mobile device/tablet to provide remote access to iLR-32A data

Before You Start

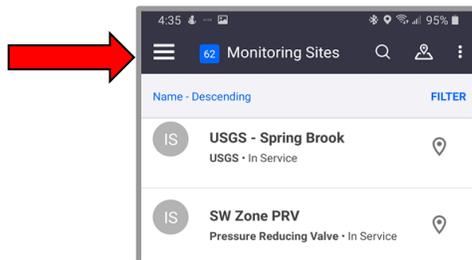
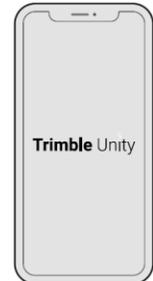
- Have the iLR-32A and a mobile device/tablet on hand
- Ensure you can log into the Trimble Unity mobile application

Add iLR-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.

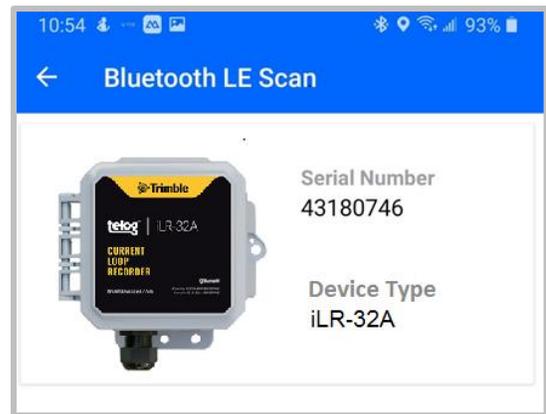
1. Launch the **Unity Android or iOS mobile app** on a mobile device/tablet.
2. Enter your **organization**, tap on **Next**.
3. Enter your **username** and **password**, tap on **Sign In**.
4. Tap on the **menu icon** (☰) on the **Monitoring Sites** screen.



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 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.



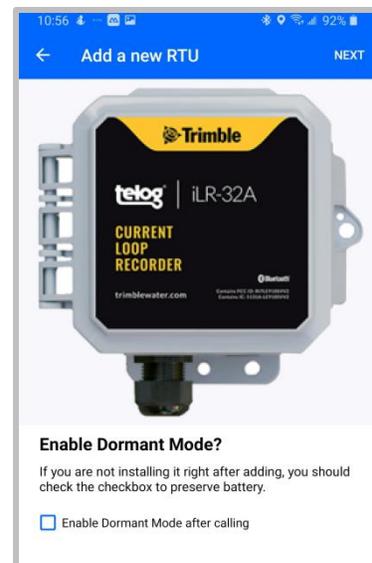
10. Tap on **Confirm**.

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 **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 **verification** is **unsuccessful**, a **Communication failed** message is displayed.

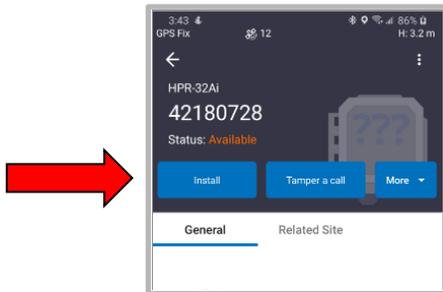


Tap on . If repeated attempts fail, contact Trimble Unity Support.

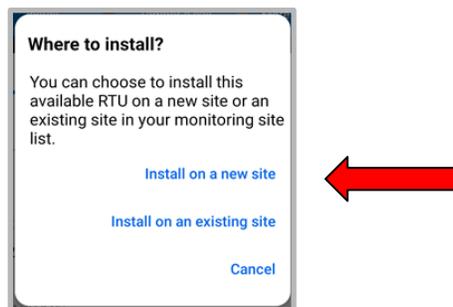
13. Tap on **Done**.

Assign a Device to an App Site

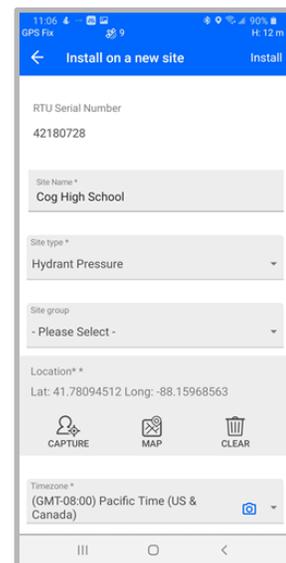
1. On the **RTU details** screen for the new **Recorder**, tap on **Install**.



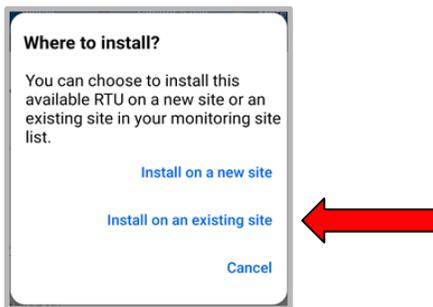
2. Are you assigning a **device** to a **new site** or an **existing site**?
 - a. Install a **device on a new site**, go to step 3.
 - b. Install a **device on an existing site**, go to step 6.
3. Tap on **Install on a new site**.



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**, select the **Group**.
 - **Location* ***:
 - Tap on **Capture** to enable the **GPS** location, or tap on **Map** to select a location on the map.
 - Tap on 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.

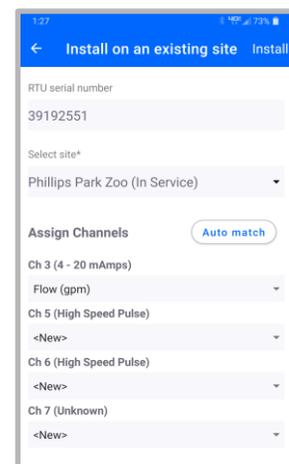


6. Tap on **Install on an existing site**.



7. Tap on the **Select site*/Please** down arrow, display the **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.

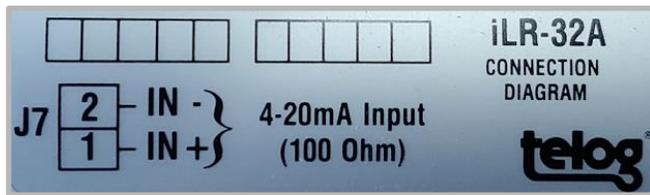
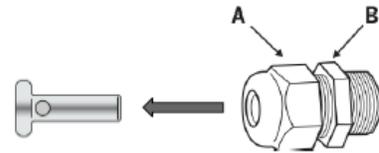
10. Tap on **Assign Channels** **Auto match** to display a list of **Channels**.
11. Tap on each **Channel (Ch #)** **down arrow**, select the appropriate value (if not already displayed) until all **Channels** to be used are assigned.
12. Tap on **Install**. A **confirmation message** is displayed.
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 iLR-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

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 **meter** or **process instrument cable** through the **cord grip**; only allow 1/4" or less of cable sheath 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.

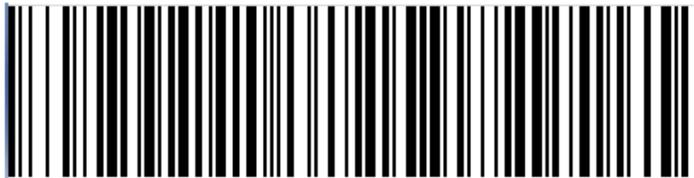
Install the iLR-32A in the Field

Prepare the **iLR-32A** for on-site installation:

1. Ensure the **housing lid** is **closed** and **latches** have **snapped shut**.
2. Ensure the **sensor 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 iLR-32A at trimblewater.com



ILR-32_A-QSG-V1

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