



USEPA
Environmental Response Team
ERT Support 1-800-999-6990



ERT In-Situ Meter App User Guide

Description

The ERT In-Situ Meter application allows you to obtain and transmit water quality data from a user-specified In-Situ sensor. The observed parameters include the following: pressure, temperature, level, and the telemetry battery level. In-Situ updates the values of the parameters at an interval chosen by the account administrator, usually hourly, and can be set by contacting the In-Situ support center. The ERT In-Situ Meter application provides you with the most recent values of each parameter. Note: In-Situ is a third-party organization that has no affiliation with ERT Support.

Installation

The In-Situ Meter application is available for download from www.epaosc.org/viper.

1. Click on the Documents section and sort on the File Name by clicking the column heading 'File Name'.
2. Click on 'Download' to the right of the In-Situ_Setup.msi
3. Double-click the In-Situ_Setup.MSI to install the Meter App.
4. Follow the installation prompts.
5. When you are prompted to 'Select Installation Folder', select Everyone on the bottom left and click Next.
6. After installation completes, launch the ERT In-Situ Meter application by double-clicking the desktop icon.

Note: The In-Situ Meter application must be installed on the computer running Survey Controller

Initial Configuration

By default, the EPAERT account is logged in. To change the current account:

1. Click on the "Settings" button. (The settings dialog box will appear).
2. Under the "Login" tab, click on "Change Current Login."
3. Enter the desired In-Situ User ID and Password.
4. Click "Confirm Change" to save the credentials.

Note: To create another account, contact In-Situ support.

The screenshot shows a 'Settings' dialog box with three tabs: 'Login', 'Unit List', and 'Connection'. The 'Login' tab is active. It displays 'Current User' as 'EPAERT'. Below this, the 'New User' section contains two input fields: 'User ID:' and 'Password:'. At the bottom of the dialog are two buttons: 'Confirm Change' and 'Cancel'.

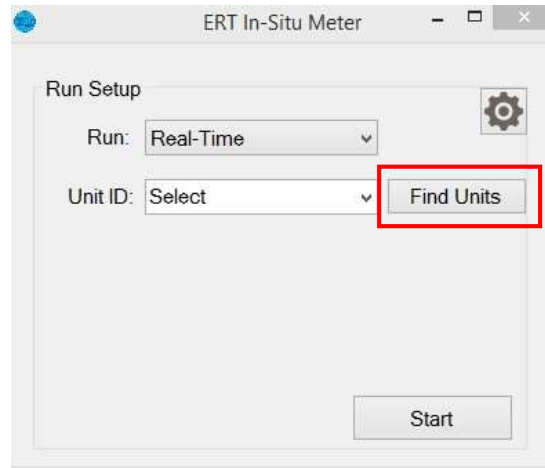


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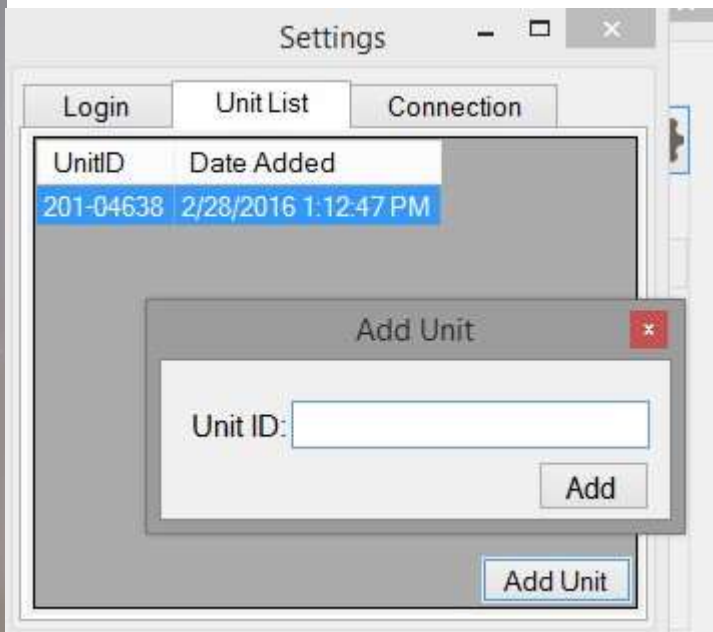
Adding a Unit

Option 1: By clicking on the “Find Units” button, in the Run Setup screen, the ERT In-Situ Meter app will attempt to find any Unit associated with the current account.



Option 2: The Unit ID for a desired unit can be found on the In-Situ Troll Link Telemetry Hardware. The Unit ID can be entered in the Unit ID Dropdown, or in the application settings.

Note: The current account only has access to the Units associated with it. An account can be linked to a Unit by contacting In-Situ Support.





Start Data Transfer

IMPORTANT: Make sure Field Survey Controller is open before continuing.

Note: The ERT In-Situ Meter application's historic run allows for a maximum of a 30 day time frame. To transfer data over 30 days, repeat the Meter Application's historic run process.

1. Press the **"Start"** button in the MeterApp

The image below explains the different parts of the Real-Time running MeterApp display.

Elapsed time since Start

Number of Changes since Start

After a run has been started in Survey Controller, Push the current reading to Survey Controller

Stop data transfer from the In-Situ to the MeterApp

Time the MeterApp last checked for updated

Time Last reading was sent to Survey Controller

TITLE	Local_time	DataChannelID	DataTitle
201-04638	2/29/2016 10:00...	37	Pressure
201-04638	2/29/2016 10:00...	45	Temperat
201-04638	2/29/2016 10:00...	53	Level
201-04638	2/29/2016 10:00...	10001	TL Batter

The image below explains the different parts of the MeterApp's Historic run display.

Total number of unit readings (Multiple Sensors per reading)

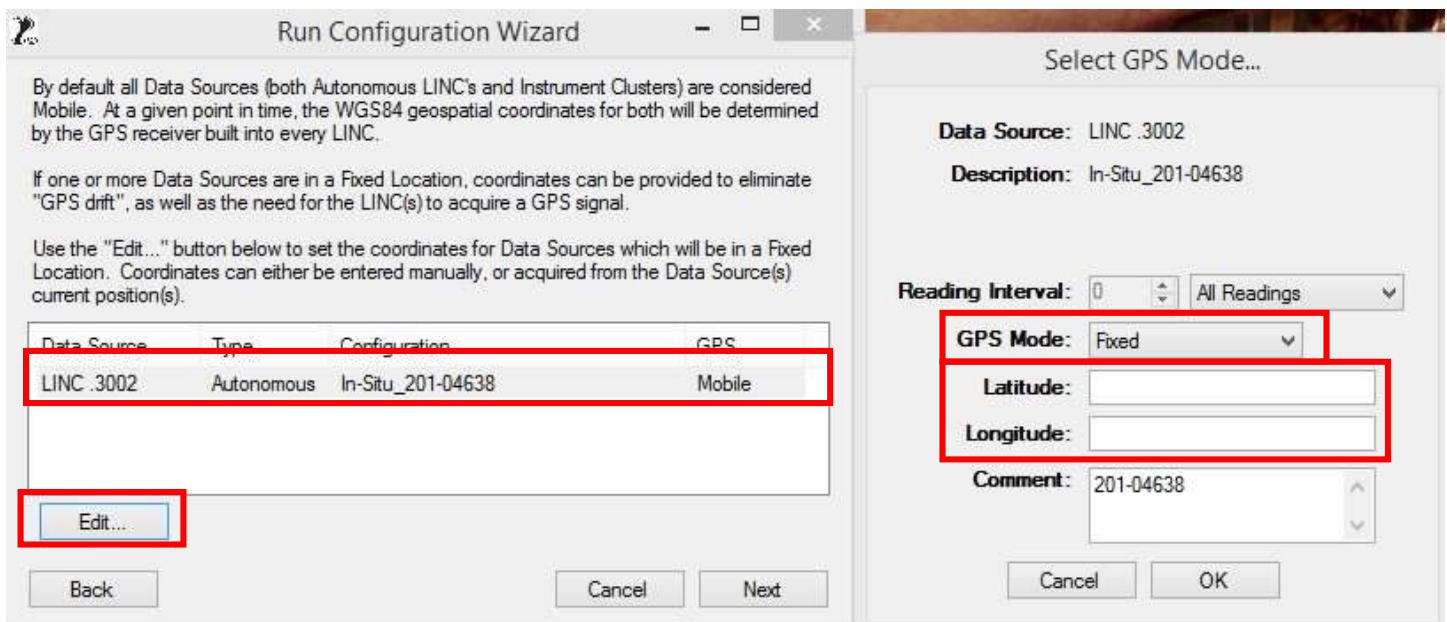
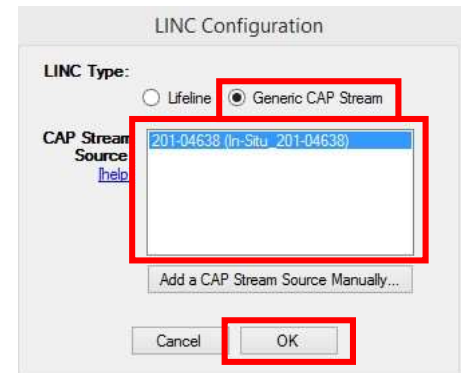
Return to the Set-Up prompt

TITLE	Local_time	DataChannelID	Data
201-04638	2/25/2016 2:00 ...	10001	TL Ba
201-04638	2/25/2016 4:00 ...	37	Pressi
201-04638	2/25/2016 4:00 ...	45	Temp
201-04638	2/25/2016 4:00 ...	53	Level
201-04638	2/25/2016 4:00 ...	10001	TL Ba
201-04638	2/25/2016 6:00 ...	37	Pressi
201-04638	2/25/2016 6:00 ...	45	Temp



Adding ERT In-Situ Meter to a Survey Controller Run

1. **Start a Run** in Survey Controller
2. In the LINC Setup Window, click '**Add**' (The In-Situ Sensors are added along with Viper equipment)
3. Click the Radio Button for Generic CAP Stream
 - If the Generic CAP Stream radio button is not available
 - i. From the RUN menu in Survey Controller, Select Preferences ☐
 - ii. Check "**Allow Generic Cap**"
4. In the Cap Stream Source box, select all desired In-Situ Units
 - **Note:** To select multiple lines at once, hold Ctrl and select each desired Source (or select the first line, then hold down Shift while selecting the last line to select all sources.)
5. (Optional) Set the Location/Coordinates for the Instrument
 - In the Run Configuration Wizard GPS prompt, Select the ERT In-Situ Meter LINC and click "Edit"
 - Change GPS mode to "Fixed."
 - Set the Latitude and Longitude
 - Click "OK"



6. After the ERT In-Situ Meter application has been added to Survey Controller, on the Meter Application:
 - **Real-Time Run:**
 - i. click the "**Push**" button.
 - ii. **Note:** Readings are sent automatically when changes in values are detected.
 - **Historic Run:**
 - i. Click the "**Back**" button.
 - ii. Re-start the historic run.



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Change Port or Host

- By default, the Port is set to “6991” and the Host Name is set to “localhost.”
- To change the Port or Host Name, click the Settings button. Select the “Change Port or Host” option. Click the change button to enter the new values. When finished, select continue.

Note: The Port and Host Name will revert back to default when the application is closed.