

BLUETOOTH COMMISSIONING TOOL

Instruction Manual



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IMPORTANT NOTE:

Unplug the BCT after commissioning. Failure to do so may cause damage or accident.

If an existing ActronLink application is already installed in the mobile, UNINSTALL the existing application and re-install the latest ActronLink from the App store (IOS) or Playstore (Android). Please ensure that the newest ActronLink is installed.

For capacities between 70 to 100kW, the ActronLink app requires outdoor Firmware version of 3.73 or higher.

01. General Information

The ActronLink application allows users to connect to system using the Bluetooth Commissioning Tool (BCT).

This application will allow end users to connect to GENESIS and VCC products using Actron Link Application. With it's simple to use design, the application makes advanced linking functions easy for technicians while its integrated functions and remote access capabilities ensure it is trouble-free to install and service.

In this manual, you will find instructions on how to link and utilise the many advanced features this application has to offer.

Key Features:

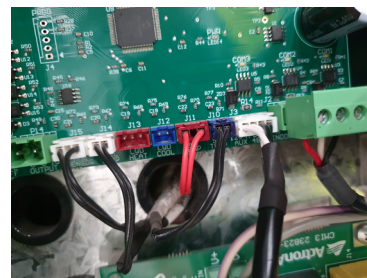
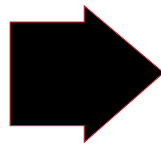
- Live Monitoring: View real-time system parameters (Pressures, Temperatures, Fan Speeds).
- Interactive Graphs: Visualise system performance over time.
- Demo Mode: Simulate various unit models and fault scenarios for training or demonstration.
- Custom Views: Create personalized data lists to focus on the parameters that matter most to you.
- Configuration: Easily adjust Control Modes and Economizer settings.

02. Installation

A. Connecting the BCT



1. Connect the cable from the BCT to AUX Port on the left Outdoor Communication Board (OCB-1). Refer to wiring diagram of the unit for more detail.



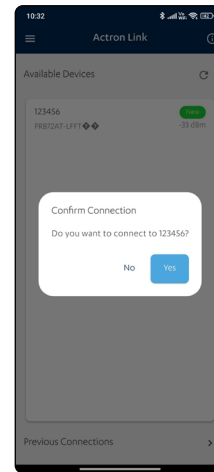
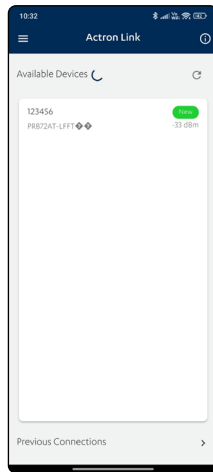
2. LED light sequence will follow:

Blue + White (flashing)	Initialising
Blue + Red (flashing)	Transitioning Test mode to BCT operation
Blue (flashing) + Red	Ready to pair
Blue + Red	Device paired
Error LED, call Technical Support for assistance	
White (long on/off)	Check RS-485 connection
Red off	BCT is not powered, check connection.
Blue off	BCT is not ready to connect to the Actron Link app. Remove connection and reconnect.

03. Actron Link Application Connection

Connecting to a Device

1. Open the ActronLink App.
2. The app will automatically scan for nearby Bluetooth devices.
3. The **Available Devices** screen will populate with detected units, showing their serial number and signal strength (dBm).
4. Tap on the desired device serial number.
5. A **Confirm Connection** pop-up will appear asking, **Do you want to connect to [Device ID]?**
6. Tap **Yes** to establish the connection.



04. App Interface And Navigation

Main Navigation Bar

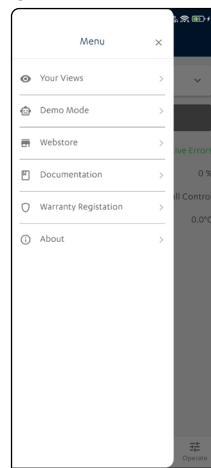
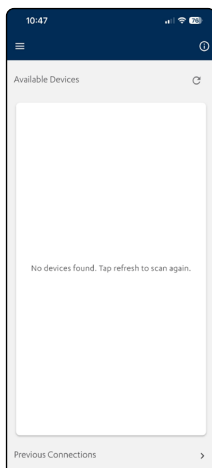
The app now features a bottom navigation bar for quick access to core functions:

- **Home:** System status overview.
- **Service:** Detailed parameters, graphs, and custom views.
- **Errors:** Active error codes and history.
- **Operate:** System operation controls and configuration.

Main Menu

Tap the **Menu icon** (☰) in the top-left corner to access global settings and tools:

- **Your Views:** Manage custom parameter lists.
- **Demo Mode:** Enter the simulation environment.
- **Webstore and Documentation:** Quick links to ActronAir resources.
- **Warranty Registration:** Redirect to website for warranty registration



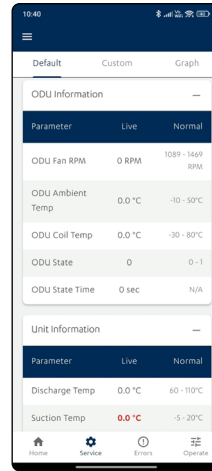
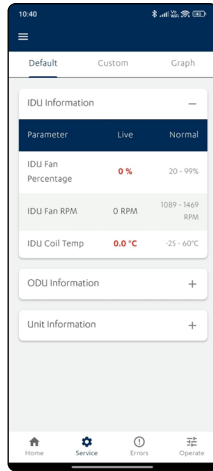
05. System Monitoring (Service Tab)

The **Service tab** is the hub for technical data. It is divided into three sub-tabs at the top: **Default**, **Custom**, and **Graph**.

A. Default View

This view displays all system parameters categorised by section (IDU, ODU, Unit Info).

- **Live Data:** Shows the current real-time value.
- **Normal Range:** Displays the expected operating range for reference.
- Tap the **(+)** or **(-)** icons to expand or collapse sections like **IDU Information** or **ODU Information**.

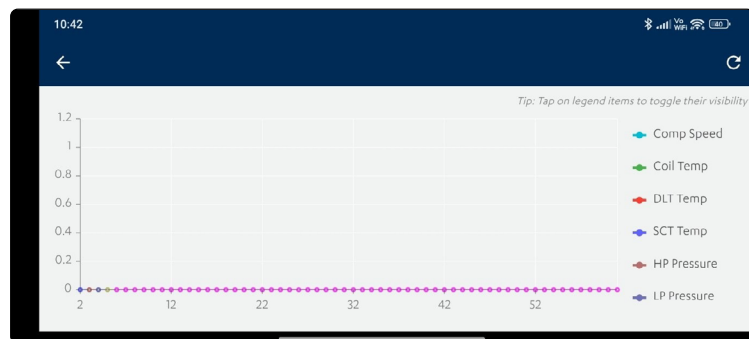


B. Graph View

The **Graph tab** visualizes system performance over time, making it easier to spot trends or instabilities.

Tap on the to expand into a full screen view with the following:

- **Legend:** The right side displays a key for the data lines (e.g., Comp Speed, Coil Temp, DLT Temp).
- **Toggle Visibility:** Tap any item in the legend to hide or show that specific line on the graph.

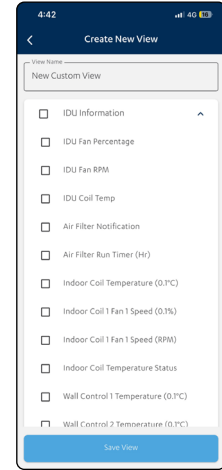
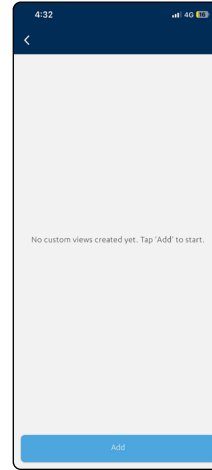
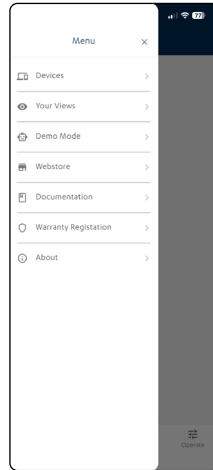
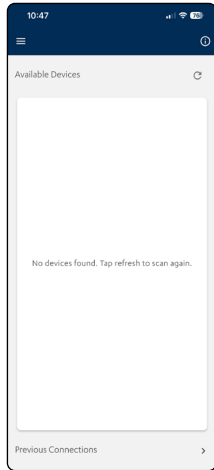


C. Custom Views (Your Views)

Technicians can create custom dashboards to view specific groups of parameters.

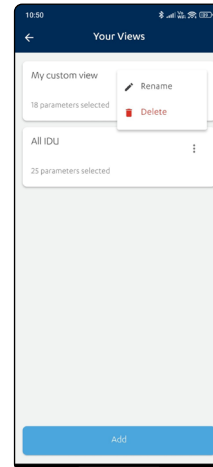
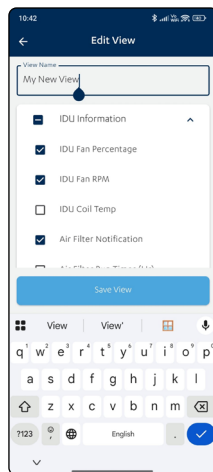
1. Tap the **Menu icon** (☰) in the top-left corner to access global settings and tools.
3. To add a custom view, tap **Add**.
The default View Name is **New Custom View**.

2. Go to the **Your Views**.



4. Select the specific parameters you want to track (e.g., IDU Fan RPM, Air Filter Notification).
5. Add your view name and tap **Save View**.

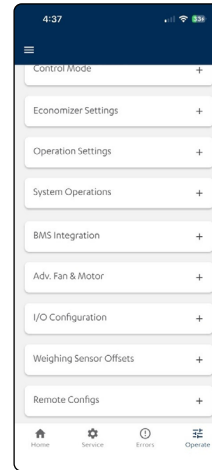
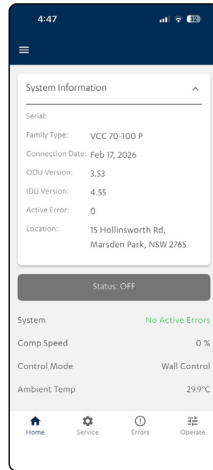
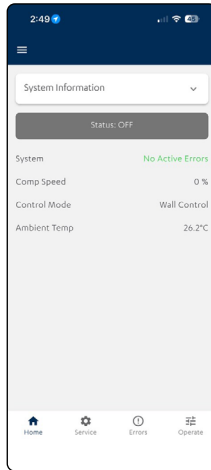
6. To rename or delete, go to **Your Views > icon** (⋮).
7. Tap **Rename** or **Delete**.



06. Configuration And Operation

The system's setting could be modified/configured using this app.

1. From the **Home Screen** tap the **System Information** for system information.
2. Tap the **Operate** tab in the lower right corner of the screen to access the global settings and tools.
 - Select the desired criteria.



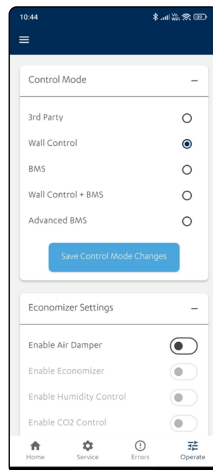
Note: Mode-Specific Restrictions

The app dynamically manages the availability of specific operation settings to ensure data integrity. Sections that are not relevant to the current Mode will appear greyed out (disabled).

Control Mode

Select the desired mode button (radio button).

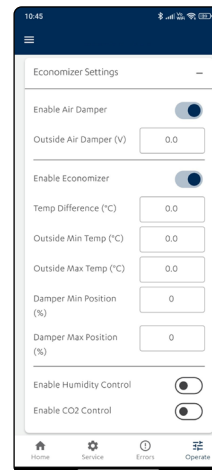
- Tap **Save Control Mode Changes** to apply.



Economiser Settings

Scroll down to access **Economiser Settings** tab.

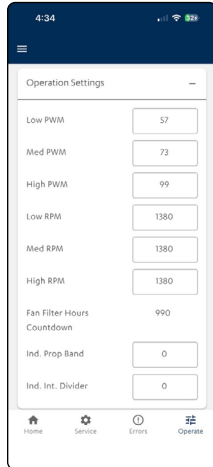
- Use toggle switches to Enable/Disable features like **Enable Air Damper** or **Enable CO₂ Control**.
- Input fields allow you to set specific voltage or percentage parameters.



Operation Settings

The Fan related settings may be configured in the **Operation Settings** tab.

Tap on the rectangle to encode the desired value; When applicable, if the range entered is beyond the acceptable values, the allowable range will shown on the bottom of the field.



System Operations

This is for user to select the value for the compressor and the fan speed. This allows the user to run the unit via BCT.

As a safety feature, the System Operations settings are reset to default values ("0") when power supply is lost.

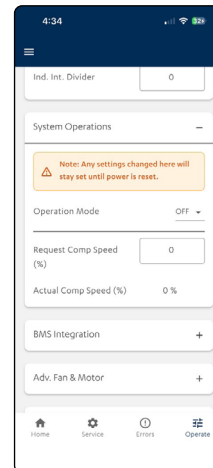
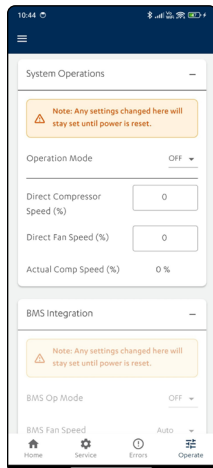
This works only when **Advance BMS Mode** is enabled.

Commercial:

- The **System Operations** section is enabled.
- Operation Mode must be selected (Heat/Cool).
- Both Compressor and Fan speed must be set.

Residential:

- The **System Operations** section is enabled.
- Operation Mode must be selected (Heat/Cool).
- Only Compressor speed must be set.

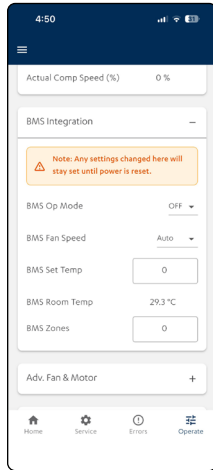


BMS Integration

This allows the system to be controlled by a centralized Building Management System. As safety feature, the BMS Integration settings are reset to default values (“0”) when power supply is lost.

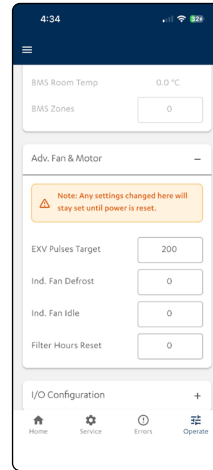
This works only when **Advance BMS Mode** is enabled.

- The **BMS Integration** section is enabled.
- Operation Mode must be selected (Heat/Cool).



Adv. Fan & Motor

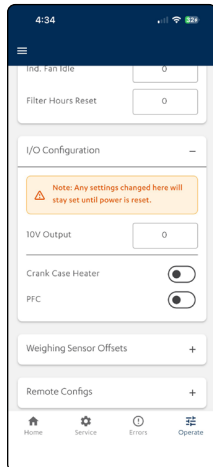
To run EXV manually and to modify Fan function related parameters, enter the values in the rectangular field. When applicable, if the range entered is beyond the acceptable values, the allowable range will show on the bottom of the field, otherwise the default values will be applied.



I/O Configuration

This is to set the parameters for the outside air damper.

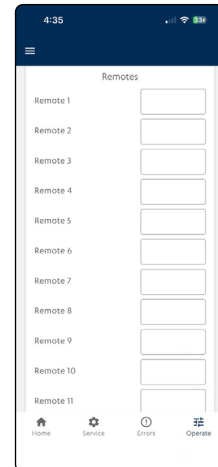
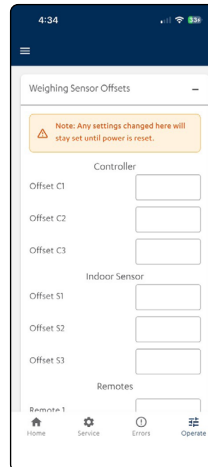
- Expected range of 10V Output is from 2 to 10V).
- Crank Case Heater and PFC may be set to ON/OFF.



Weighing Sensor Offsets

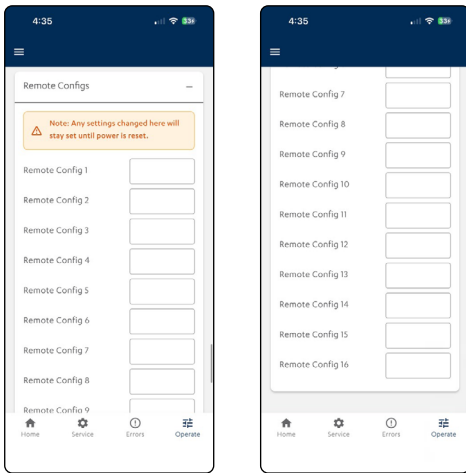
This is the deviation of value from the reading to the actual value.

- Available parameters are
 - 3 x Controllers
 - 3 x Indoor Wired Sensors
 - 16 x Remote Wireles Sensors.



Remote Configs

This is to enable or disable the Remote Wireless Sensors. (0) disable / (1) enabled



07. Errors

The **Errors** tab displays the current system health.

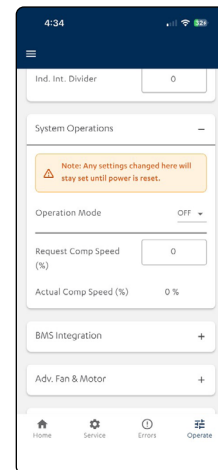
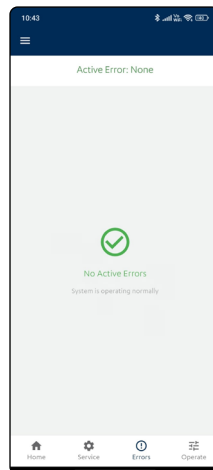
- **Green Check:** Indicates the system is operating normally with no active errors.
- If an error is present, the specific code and description will be listed here.

Commercial:

- The **System Operations** section is enabled.
- Operation Mode must be selected (Heat/Cool).
- Both Compressor and Fan speed must be set.

Residential:

- The **System Operations** section is enabled.
- Operation Mode must be selected (Heat/Cool).
- Only Compressor speed must be set.



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