

BMS STARTUP MOBILE APP

POINT CHECKOUT

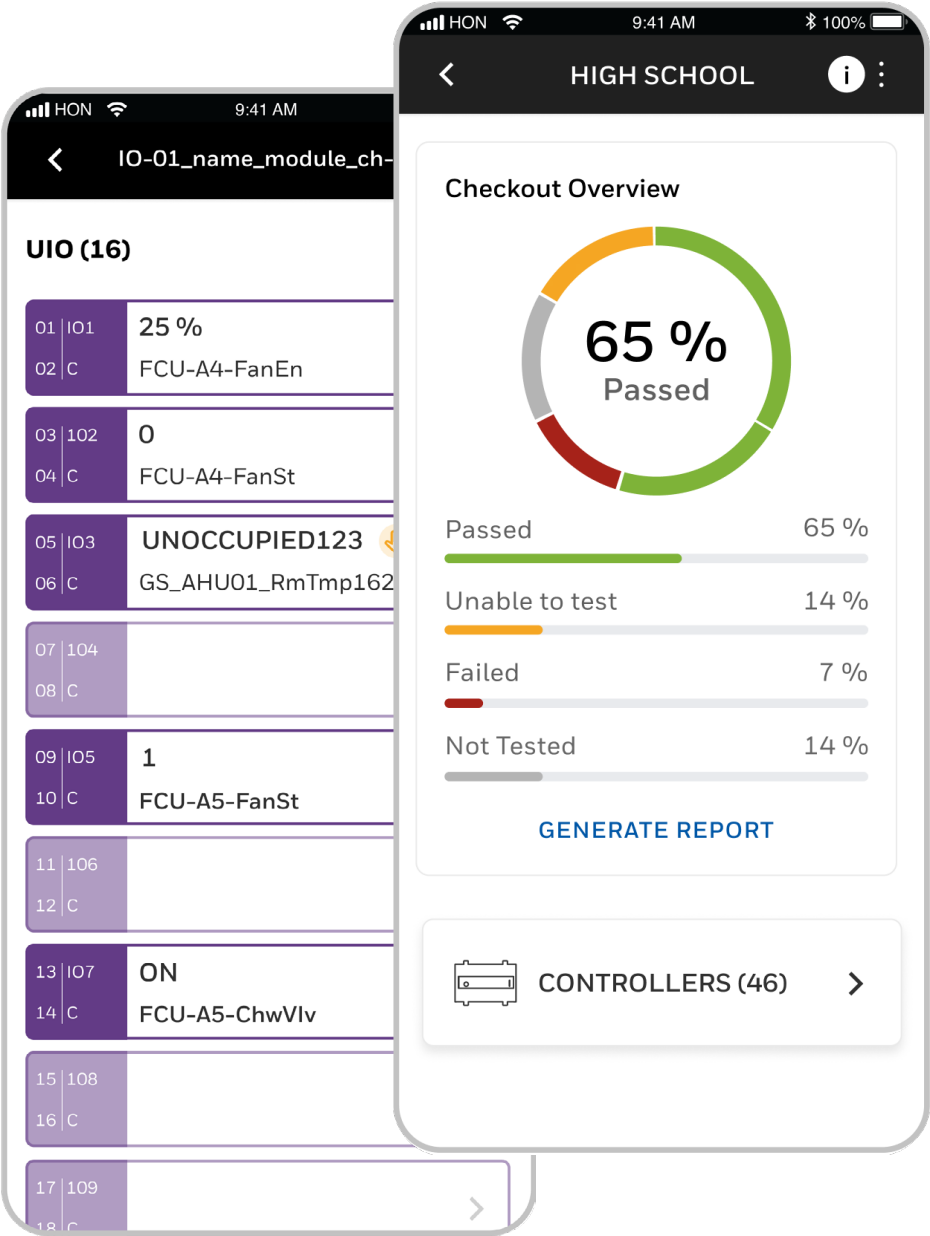


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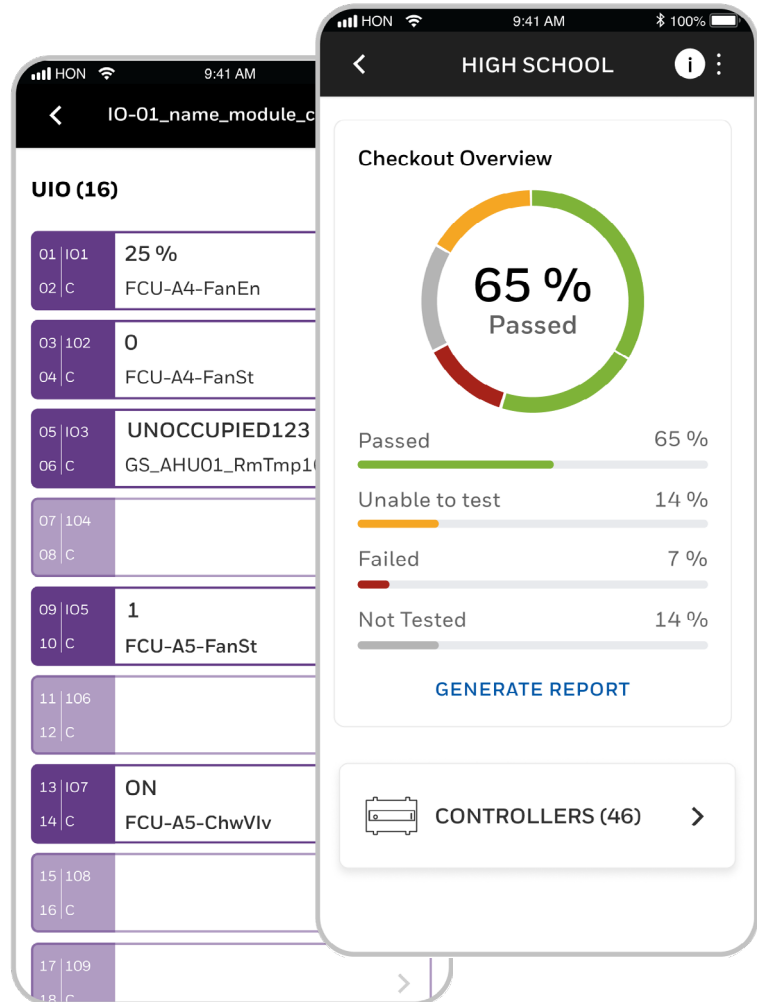
MOBILE APP

Reduce Commissioning time by testing connected sensors and actuators directly via your App.



Point Checkout

BMS Startup Mobile App

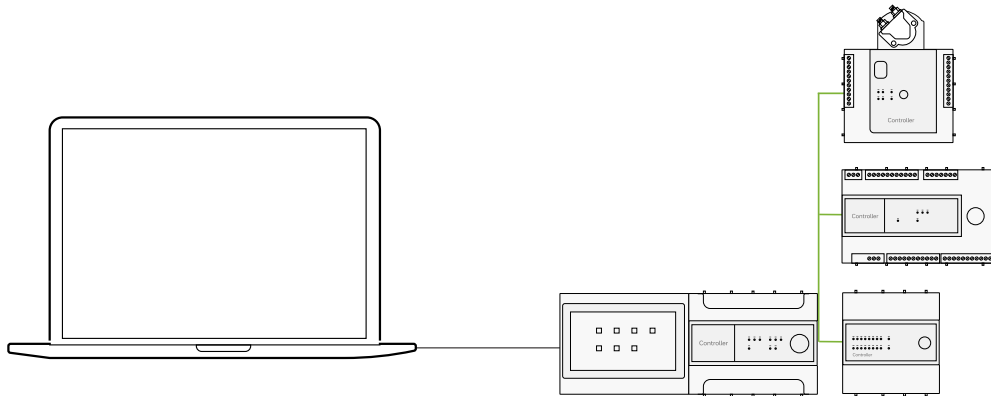


Connect to the Controller via BLE and retrieve the IO/Point Configuration to enable Point Check Out which includes:

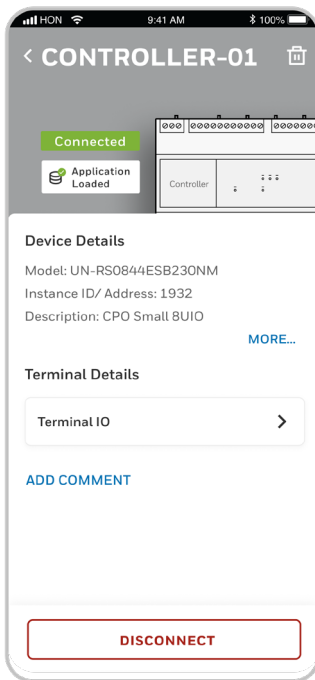
- See Live Point Values
- Override Outputs
- Record Test Results
- Visualize Project Progress
- Generate Automatic Reports

SYSTEM OVERVIEW

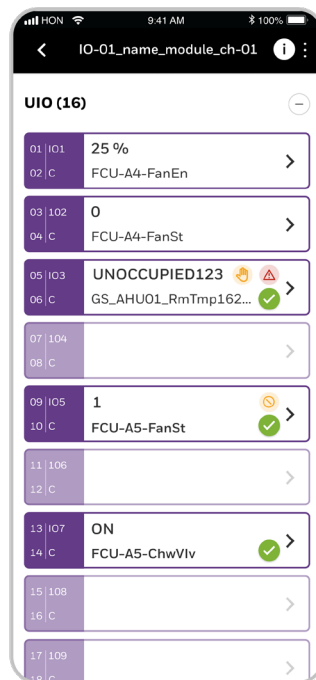
1 Configure the Controller



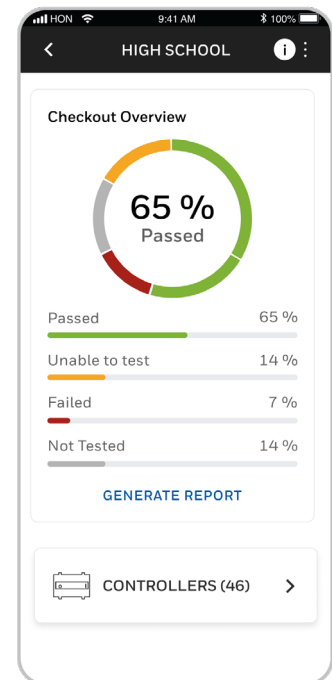
2 Connect via BLE



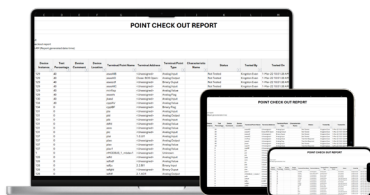
3 Checkout Points



4 Report



5 View Reports

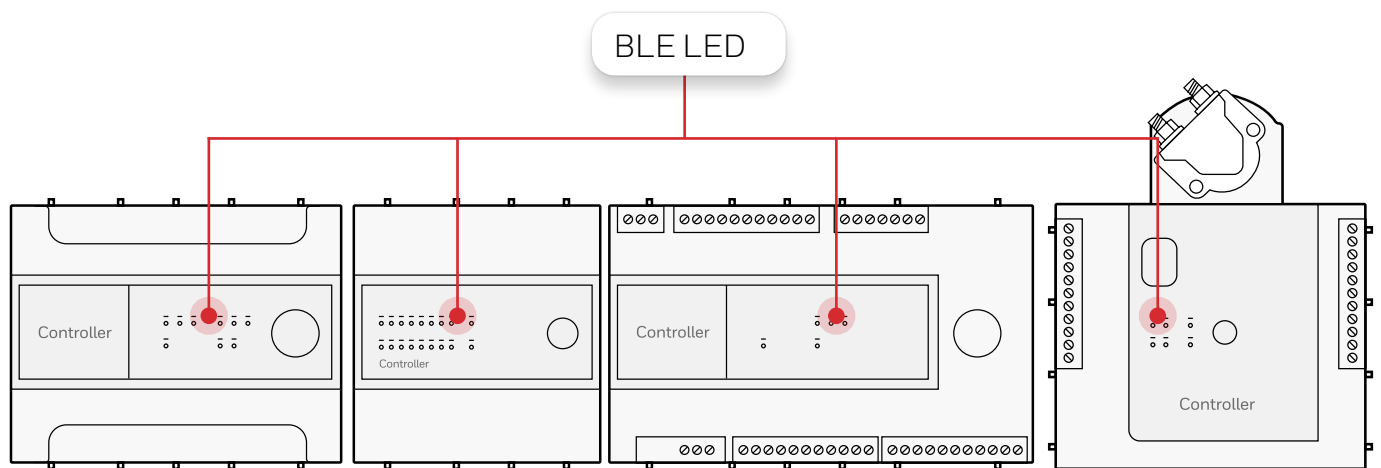


VERIFY THE CONTROLLER STATUS

Verify that the Engineering Tool has been used with this Controller to perform the below tasks:

- Download Application/Strategy
- Update latest firmware*
- Set up Date and Time
- Enable BLE, with a Security Code and Expiry date.**

After the Tool is used to set the passcode, the BLE LED will blink Green. It will turn Solid Green only after the app connects and pairs with the device.



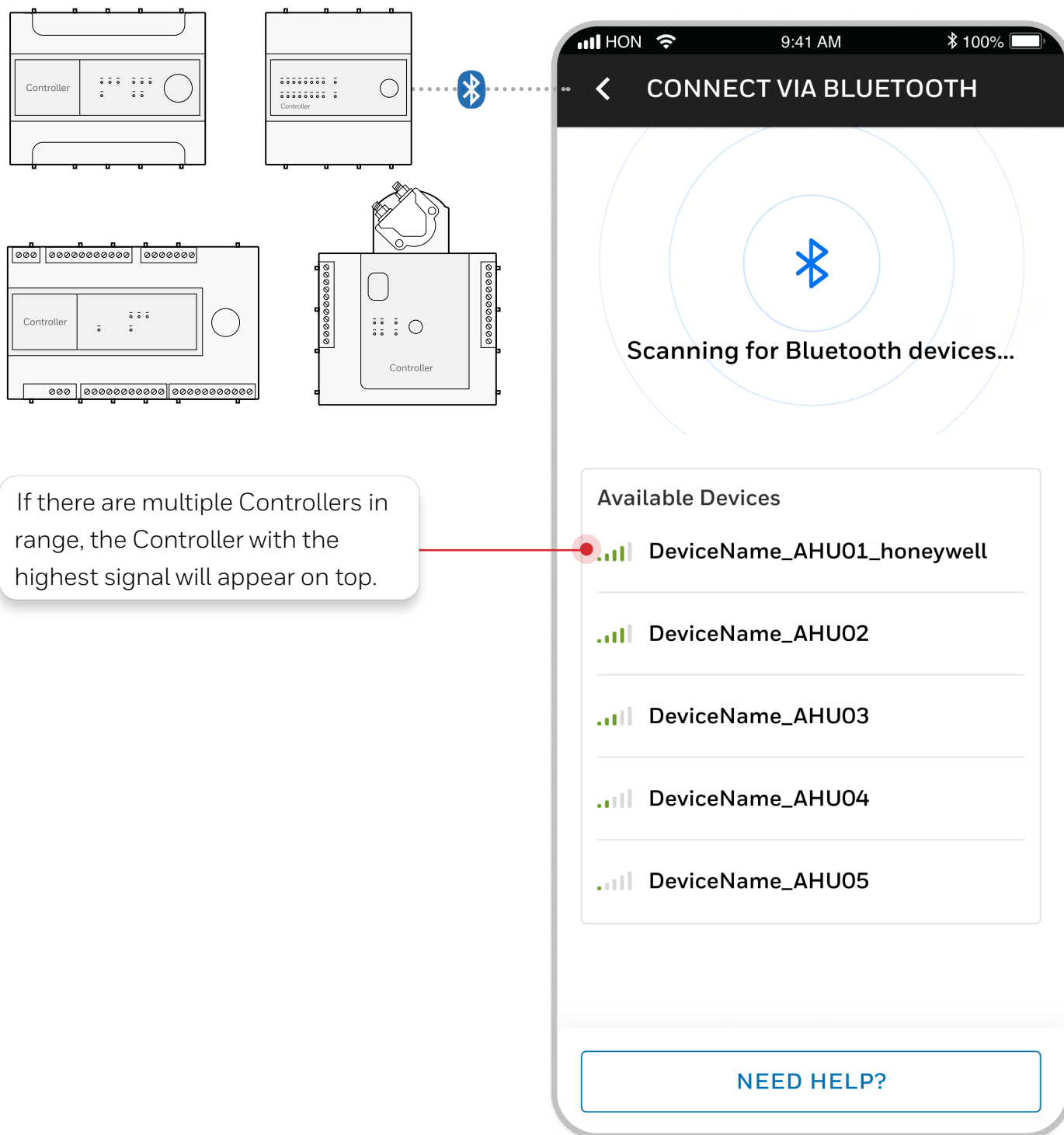
Note: * To check the latest and compatible firmware version, use the Troubleshooting and FAQ guide in the app's Help Section. It also explains how to update the firmware to the latest version.

**While it is not a mandatory step, we recommend setting up the controllers Security PIN via tool. If this is not done, you can also do it for the first time using the Mobile App.

DISCOVER CONTROLLER

Start by discovering BLE devices around. The Controller will broadcast their “Device Name” or their “Device Description (Alerton-only)” as configured in the tool.

If “Device Name” is not configured, the Controller will broadcast its Serial Number by default.



Note: Ensure the Mobile Device and the controller are within the BLE range (20-30 meters). Due to BLE advertisement character limitation, only the first 21 characters of Device name/description will be displayed in the list. Niagara Advanced Controller broadcasting station name will be available in upcoming releases.

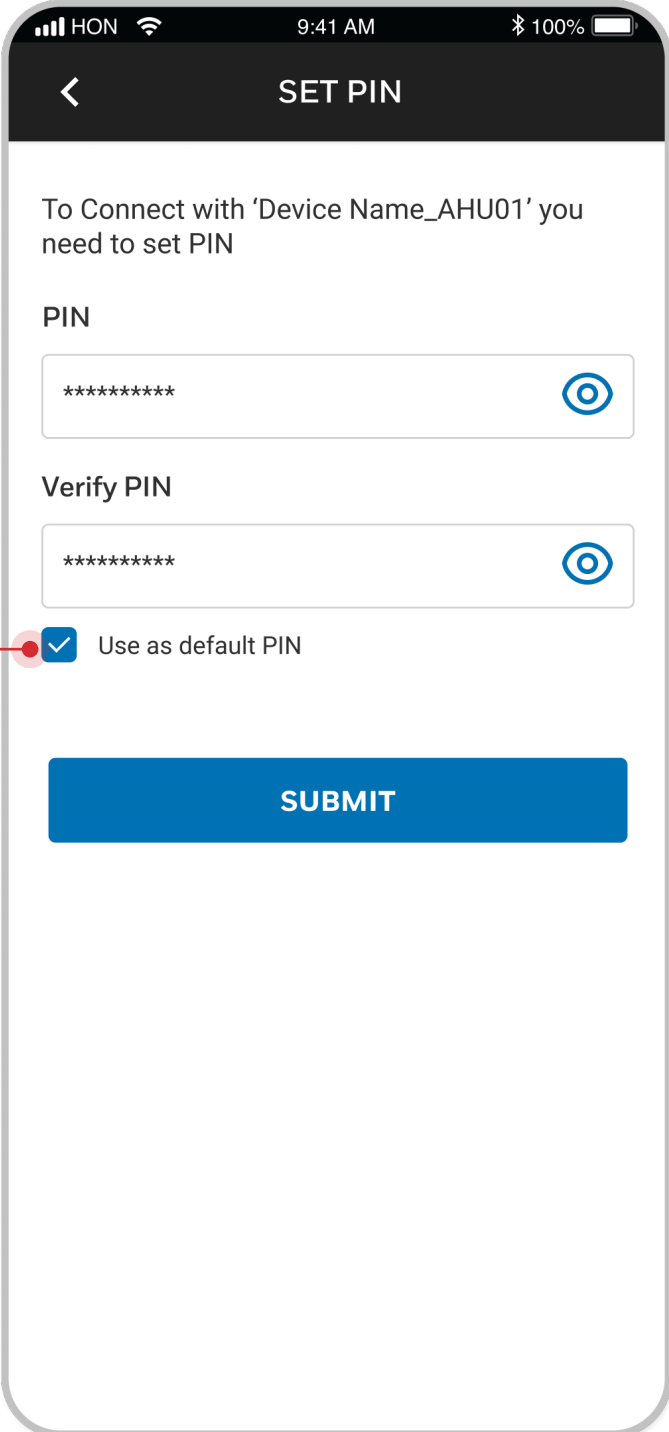
VIEW CONTROLLER DETAILS

Each BLE Controller will be protected by a Security PIN.

You can either configure it via the Tool, setting up validity dates or via your Mobile App if that the PIN has not been set up via the Tool before.

If you have not configured via the Tool, you can do it via your App as shown below:

You can also choose to use the same Security PIN across the same Site by selecting this option.



SET PIN

To Connect with 'Device Name_AHU01' you need to set PIN

PIN

Verify PIN

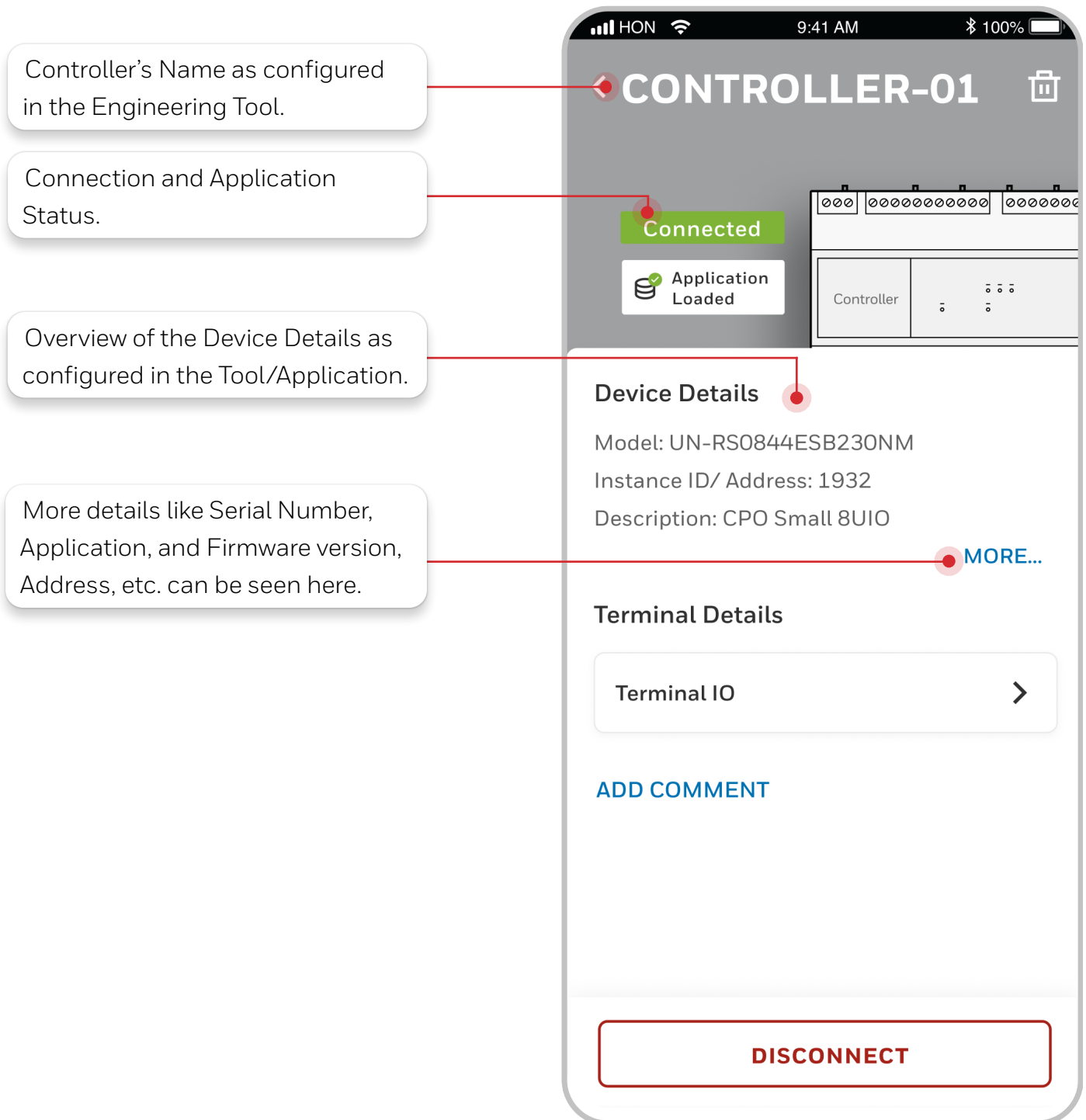
☒ Use as default PIN

SUBMIT

CONTROLLER'S PAGE

Once connected, the BLE LED on the controller will turn Solid Green.

In your App you will get to your Controller page where you will be able to see the Connectivity status, Controller Details, Points and IOs connected to it.



Note: If any IO/Point configuration changes in the controller, you will need to reconnect with your App to view the updates. Also, in case of extended IO modules, make sure to navigate into IO module to get the updates.

VIEW IO MODULES

See the list of IOs connected to the Controller, as configured in the Engineering Tool.



Note: If the total number of IO modules in a site (across all controllers) is >500, the app's performance may not be optimal in various workflows. It is recommended to split further controllers/IO modules into separate site(s) for better performance.

POINT LIST


Inside each IO, the list of terminals will be displayed with each associated Point Details, Live Values, Override Status and more.

Each terminal is color-coded and displays the Controller's Hardware terminals.

Point Status Reference will be indicated, as below*:

 **In Alarm**

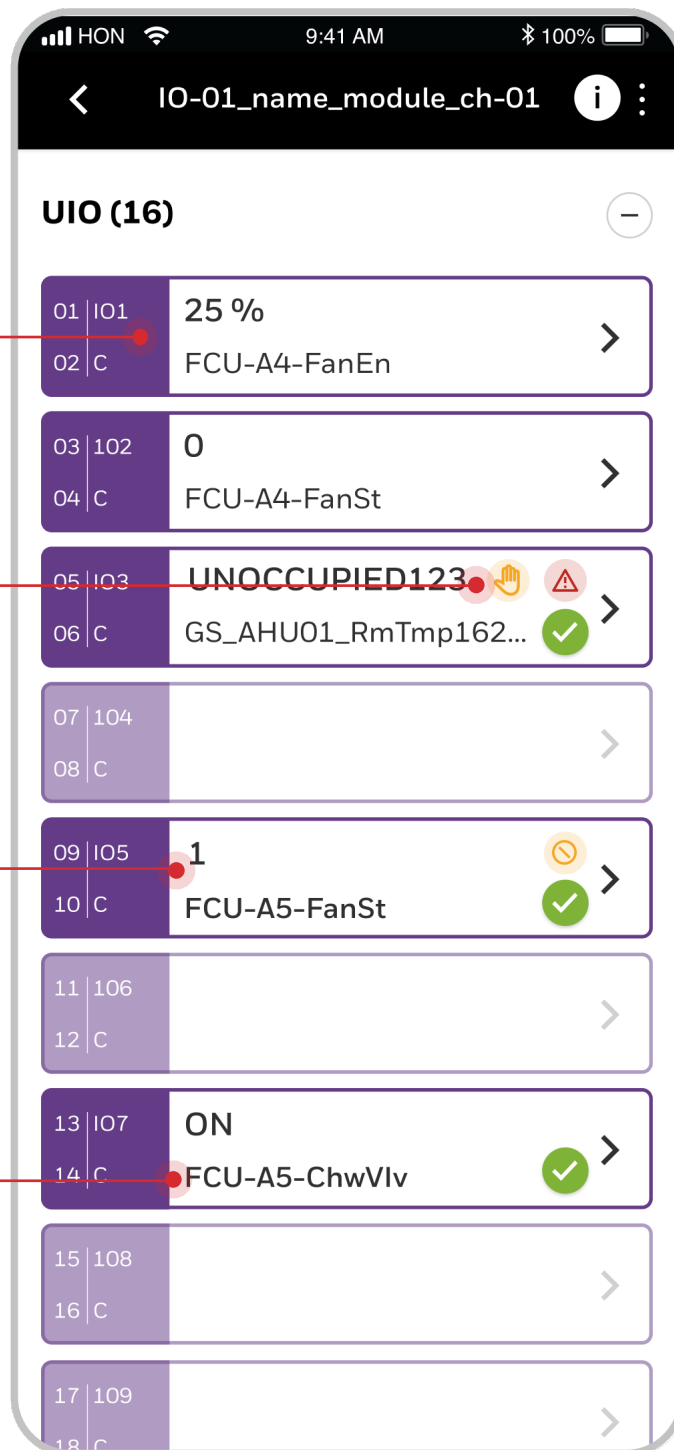
 **Fault**

 **Out Of Service**


 **Override**

You will get automatic refreshed values every 5-6 seconds.

Each terminal will display the present value of the points along with their names.



Note: Only operational data like Present value and Point status will be refreshed periodically. You would need to reconnect to the controller for any configuration changes such as Point/IO configuration, Add/Delete Devices, Name, Char, Unit updates, etc. Filter will be available for Optimizer unitary controllers in upcoming releases.

*When having a point simultaneously “In Alarm” and “Fault”, only “Fault” will be displayed. When having a point simultaneously “Out of Service” and “Override”, only “Override” will be displayed. This page only shows a maximum of 2 statuses out of 4. For more information use the  icon.

OVERRIDE BINARY/DIGITAL OUTPUTS

Verify that your equipment is functioning properly by overriding outputs. You can set Timed Overrides that will be cleared after the specified duration.

The current point value will be shown here, along with any Override Status indicated by a “hand icon” and the remaining time.

See Point details as configured in the Tool.

Auto function will clear the Override value.

The Manual Option will enable a Manual Override with a Timed Duration (1-24 hours).

Override Duration

Hours

Permanent ☐

Value

☐ OFF (0)

☐ ON (0)

120205_BO

03:59 time left

25 %

Point Details

Type	Analog Output
Characteristic	Direct
Terminal	DO RELAY 1
Description	

Mode

AUTO MANUAL

ADD COMMENT

Passed Failed Unable to Test

Note: The Mobile App writes to Priority 8 when overridden, for the points that support the Priority array (1-16).

If the Point is overridden from an Engineering Tool that do not support Override time, no time will be shown along with override indication.

Timed overrides will be automatically cleared after a specified duration or events such as controller restarts or application downloads.

OVERRIDE ANALOG OUTPUTS

In Manual Mode, you can manually adjust the value of an Analog output.

Manual override the output by entering a custom value.

Override Duration

Hours

Permanent ☐

Value

☐ 0 %

☐ 50 %

☐ 100 %

☐ Custom

FCU-A4-FanEn

03:59 time left

25 %

Point Details

Type	Analog Output
Characteristic	Direct/ Normally Open
Terminal	UIO1
Description	FCU-B3-ChwVlv

Mode

[ADD COMMENT](#)

☒ Passed ☐ Failed ☐ Unable to Test

Note: Permanent Overrides are supported for Advance Plant Controllers Only, not for Unitary or VAV devices.

ANALOG INPUTS/SENSOR STATUS

View and Check Analog Inputs, their live point value, their respective Characteristics and current Checkout Status.

Point Checkout Status

Point Status Reference will be indicated as below:

- In Alarm
- Fault
- Out Of Service
- Override

Each IO terminal provides you with details about associated points and their current status.

GS_AHU01_RmTmp Not Tested

0

Point Details

Type	Analog Input
Characteristic	Consumption rate >
Terminal	UIO 5
Descriptor	GS AHU01-RmTmp

Mode

AUTO MANUAL

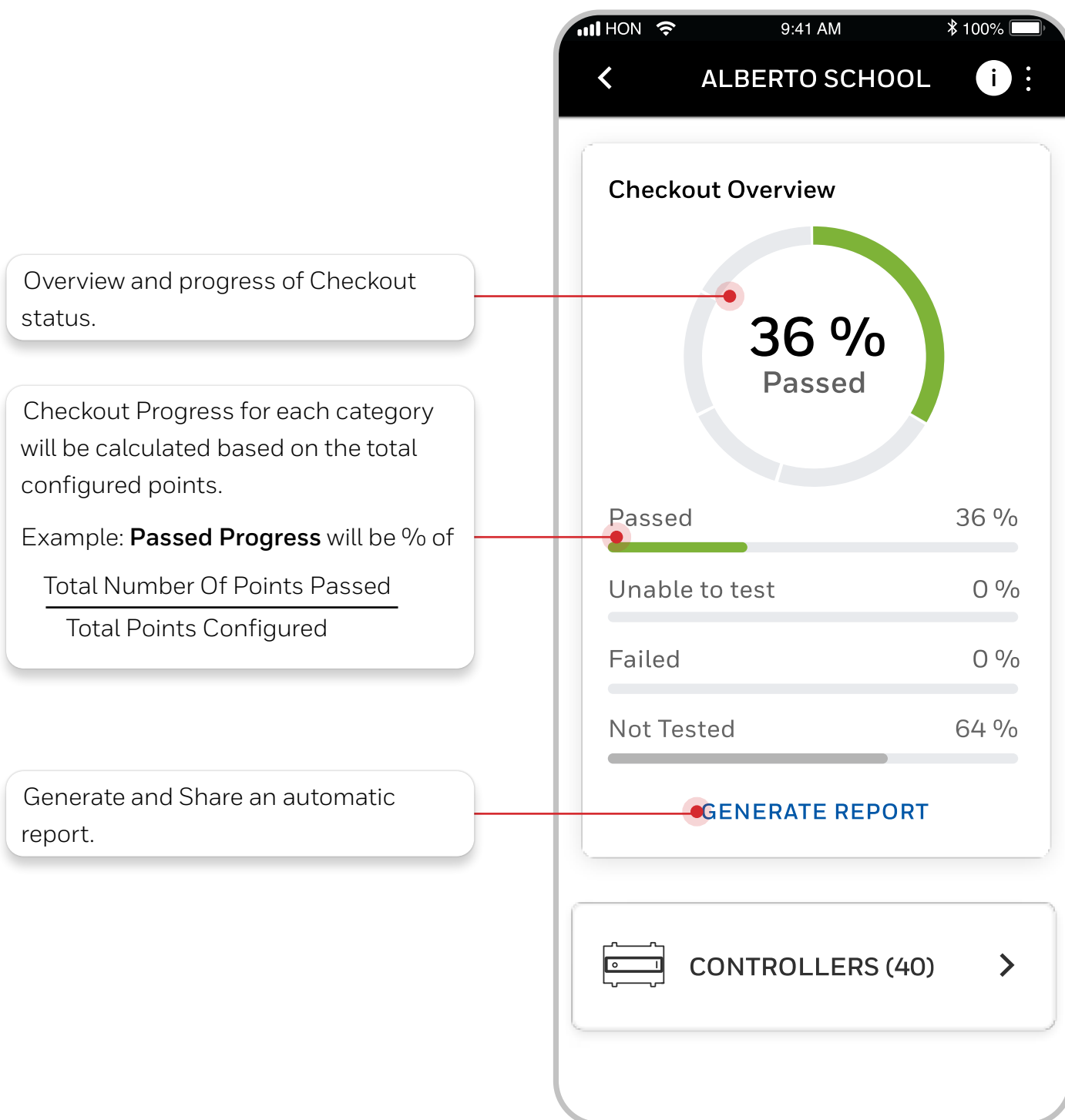
[ADD COMMENT](#)

Passed Failed Unable to Test

Note: Once a point is tested and then configuration of that point changes in the controller, its checkout status will remain in-tact in the App. You need to consider retesting based on the configuration change as applicable. In case of Alerton, make sure the “configured” flag is set to false in this page, if the point is not used in the controller in order to get the accurate checkout %.

CHECKOUT PROGRESS

You can visualize the Checkout progress at Site or Controller level.



GENERATE REPORT

Generate report at site level by selecting the controllers you want included in the report. A .csv file will be generated in your App that will be made available to store it locally or to Share it via your traditional channels.

Give a Name and Description to your report.

Report Name

HIGH SCHOOL Report

Description *Optional*

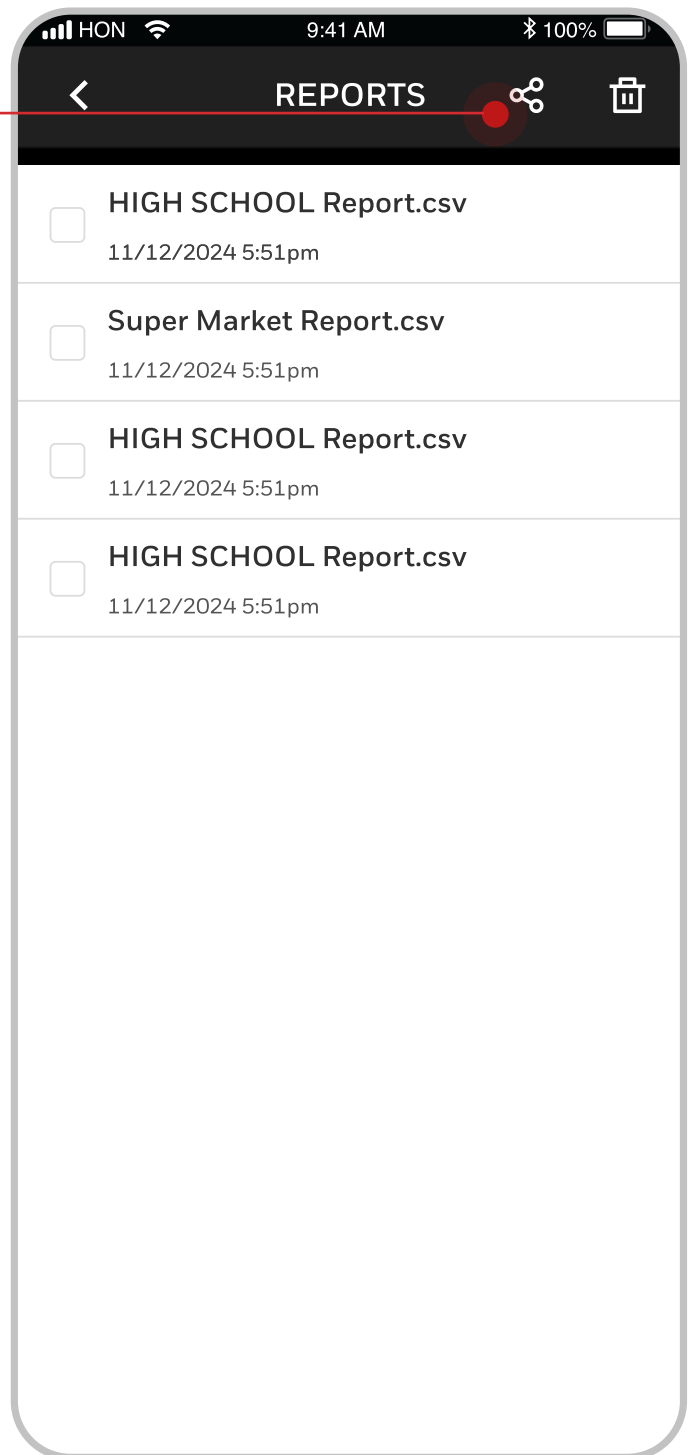
Reported by *Optional*

GENERATE REPORT

VIEW REPORT

You can find all your reports in the **Hamburger > Report management** section of the App.

Share and Delete reports from here.



Note: The list of Reports is for a single user, and for a single Mobile App. We do not support Multi-User yet. While sharing multiple reports, size limitations may vary based on the application you chose to share.

VIEW REPORT

The report will include check-out status at both the site and controller levels, allowing you to Share it with your team.

POINT CHECK OUT REPORT

check-out report
AM (Report generated data time)

Device Instance	Test Percentage	Device Comment	Device Location	Terminal/Point Name	Terminal Address	Terminal/Point Type	Characteristic Name	Status	Tested By	Tested On
129	40			aaaaAIB	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
129	40			aaaaAD	Close BCB Open	Analog Output		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
129	40			aaaaAC	<Unassigned>	Binary Output		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
129	40			aaaaAC	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
129	40			miniflap	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
129	40			aaaaAH	<Unassigned>	Analog Flag		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
130	40			kkad	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
134	40			cpplAV	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
134	0			cpplBF	<Unassigned>	Binary Flag		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
131	0			pla	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
131	0			pld	<Unassigned>	Analog Output		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
131	0			plb	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
131	0			sdff	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
131	0			asre	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
131	0			plc	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
137	0			plai	1.0.U1	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
137	0			plao	<Unassigned>	Analog Output		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
137	0			plav	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
137	0			plav1	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
1	0			PHODBUS_1_mibdev1	<Unassigned>	Unknown		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
128	0			sdff	<Unassigned>	Analog Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
128	0			sdff	<Unassigned>	Analog Value		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
128	0			sdff	2.2.B1	Binary Input		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
128	0			sdff	<Unassigned>	Binary Output		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM
128	0			sdff	2.1.A01	Analog Output		Not Tested	Kingston Evan	1-Mar-22 10:51:38 AM

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