

Super Skybox MA02

User Manual V1.8 — 2026.7.27



1. Introduction	3
2. Installing Super Skybox	3
3. Using the Super Skybox local web interface for provisioning	
a. Setting the IP Address of Super Skybox	4
b. Adding devices on platform	5
c. Auto discover connections	5
d. Manually adding a device	6
e. Discover BACnet data points in device	8
f. Renaming BACnet points	10
g. Adding data points in a Modbus device	12
h. Post processing of Data	13
i. Deploying apps on Super Skybox	15
4. Super SkyBox data on DREAM	18

Introduction

This document contains a brief description of the SkyCentrics Super SkyBox functionality and a quick start guide. Please contact SkyCentrics if you have any questions while working through this guide.

The Super SkyBox operates as a gateway enabling seamless data collection and control-logic execution for systems and machines that use protocols such as BACnet and Modbus. This includes, but is not limited to, various Building Automation (BAS) and Building Management (BMS) systems, HVAC, Boilers, Chillers, Water Heaters, Heat Pumps, Pumps, Solar, Battery, Lighting Systems, as well as independent sensors and machines.

The Super SkyBox (SSB) can be connected to a local network or a serial bus depending on the configuration. Various optional components can be purchased to enhance its abilities, such as a WaveShare device to bridge the SSB ethernet port to RS-485.

Installing Super Skybox

To connect the Super SkyBox to a local network, simply

- (1) Mount the Super SkyBox in a utility closet or network cabinet
- (2) Connect the Super SkyBox to a network switch that is connected to the local network using an Ethernet cable (Cat6 or above recommended)
- (3) Power it on with the provided power supply. Both red and green LEDs should turn on and start blinking.

By default, the Super SkyBox obtains an IP address from the local DHCP server. The S/N serial number on the label specifies its MAC address which can be used to identify it on the network.

MA02-WBNA (Cellular Super SkyBox)

Upon power-up, the Cellular Super SkyBox establishes an encrypted connection over the 4G LTE network to SkyCentrics' servers, enabling secure, bidirectional communication for data transmission and control signals.

MA02 (Ethernet Super SkyBox)

Upon power-up, the Super Skybox establishes an encrypted connection via Ethernet cable to communicate securely with SkyCentrics' servers.

Using the Super Skybox local web interface for provisioning

Finding the Super SkyBox IP address:

1. Open Terminal App (If using a MAC), or Command Line if using Windows.
2. Enter `arp -a` in your laptop's Terminal or command prompt.
3. Locate the entry whose MAC address matches with what's printed on the Super SkyBox label; the corresponding IP address (in parentheses) is the device's IP address
In the example below, the highlighted device is a Super SkyBox with SN "2CCF67B61021", with corresponding IP address 10.0.0.167:

```
[engineer2@SCNs-MacBook-Pro ~ % arp -a
? (10.0.0.1) at d4:b9:2f:dc:c3:bb on en0 ifscope [ethernet]
? (10.0.0.155) at ee:9a:4:d3:8a:a0 on en0 ifscope [ethernet]
? (10.0.0.165) at a0:52:72:bb:2c:b2 on en0 ifscope [ethernet]
? (10.0.0.166) at 7a:75:6a:6a:8a:25 on en0 ifscope permanent [ethernet]
? (10.0.0.167) at 2c:cf:67:b6:10:21 on en0 ifscope [ethernet]
m... .. (224.0.0.251) at 1:0:5e:0:0:fb on en0 ifscope permanent [ethernet]
]
engineer2@SCNs-MacBook-Pro ~ %
```

Access Super SkyBox Local Webpage:

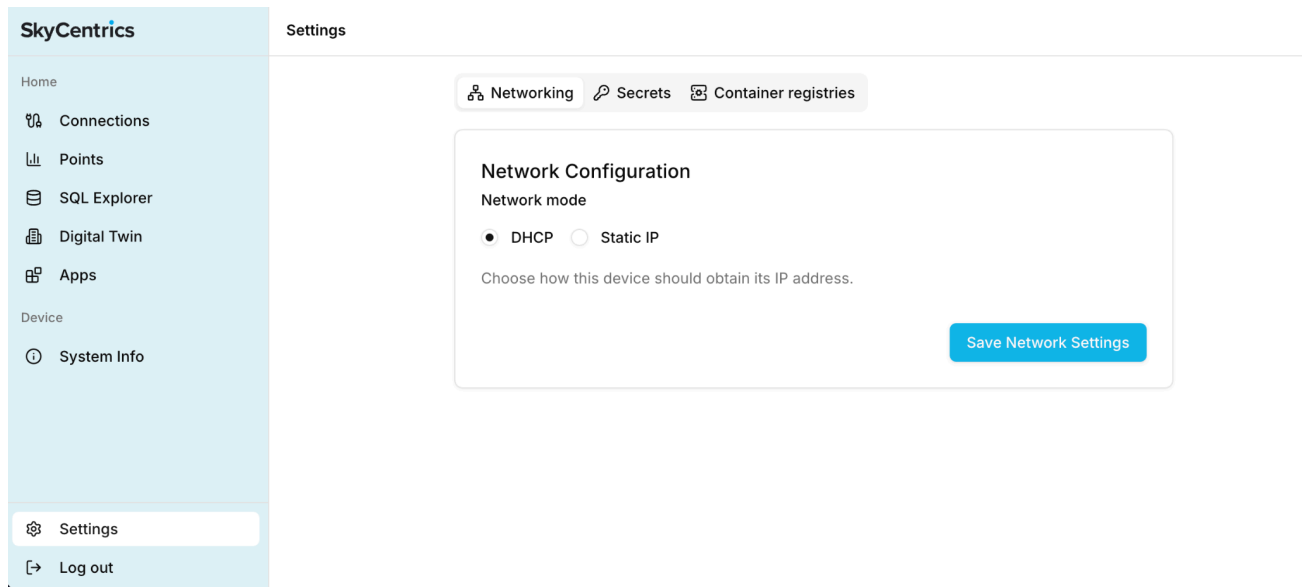
1. Once you have found your Super SkyBox's IP Address, you can access the Super SkyBox local webpage at **`http://"SkyBox_IP_address":8000/app`**
Note: You must be connected to the same network as the Super SkyBox to access this page.
2. When prompted, log in using the following credentials:
 - a. **Username:** admin
 - b. **Password:** The SN of the Skybox, as printed on the product label (*case-sensitive, use all capital letters*)
3. After entering the credentials, click **Log In** to access the webpage.

Setting the IP Address of the Super Skybox

The IP address of the Super Skybox can be changed at any time. By default, the device is configured to use DHCP.

To configure a static IP address:

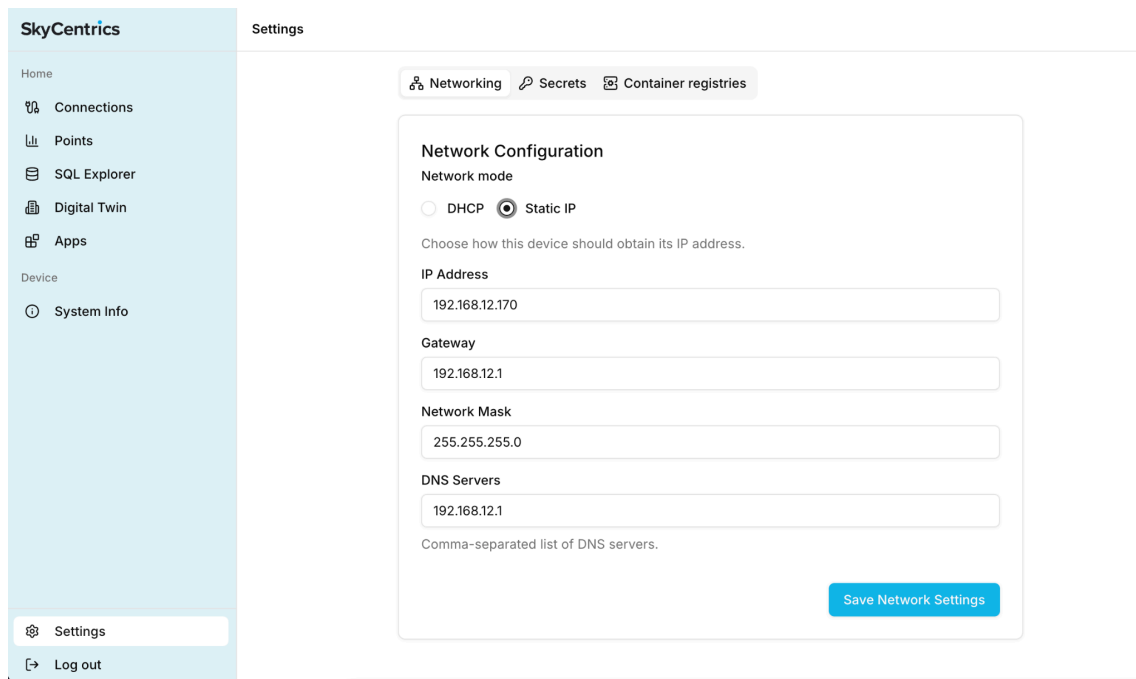
1. Open the Super Skybox web interface.
2. Navigate to the “**Settings**” tab (bottom-left).



The screenshot shows the SkyCentrics web interface. On the left is a sidebar with the SkyCentrics logo at the top, followed by a 'Settings' tab highlighted in white. Below the sidebar, there are links for 'Home', 'Connections', 'Points', 'SQL Explorer', 'Digital Twin', 'Apps', 'Device', and 'System Info'. The main content area is titled 'Settings' and has three tabs: 'Networking' (selected), 'Secrets', and 'Container registries'. Under the 'Networking' tab, there is a 'Network Configuration' section. It shows 'Network mode' with two radio buttons: 'DHCP' (selected) and 'Static IP'. Below this, it says 'Choose how this device should obtain its IP address.' and a 'Save Network Settings' button is visible at the bottom right of the configuration box.

3. Select the **Static IP** option.
4. Enter the required network details: IP address, Gateway, Network mask and DNS servers
5. Click **Save Network Settings**.

The new network settings will be applied automatically.



This screenshot shows the same SkyCentrics web interface as the previous one, but with the 'Static IP' radio button selected under 'Network mode'. The 'IP Address' field is filled with '192.168.12.170', the 'Gateway' field with '192.168.12.1', the 'Network Mask' field with '255.255.255.0', and the 'DNS Servers' field with '192.168.12.1'. Below the DNS Servers field, it says 'Comma-separated list of DNS servers.' The 'Save Network Settings' button is still at the bottom right.

Adding devices on the DREAM™ platform

In Super Skybox, devices on the network are collectively referred to as **connections**.

There are two ways to add connections:

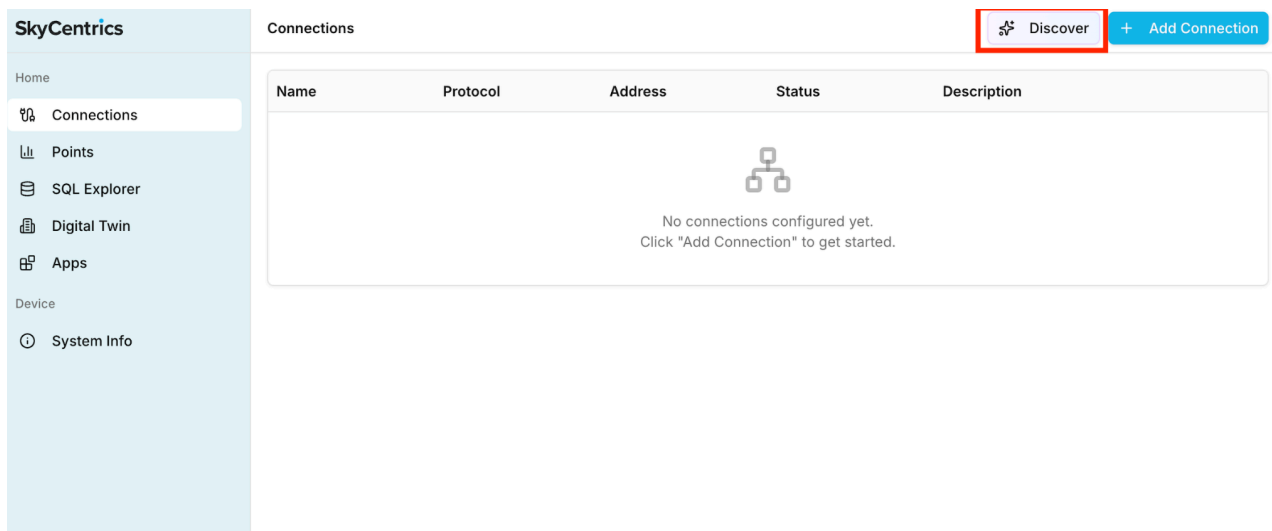
1. **Automatic Discovery:** Super Skybox can automatically detect and list BACnet devices on your network.
2. **Manual Addition:** You can manually add BACnet or Modbus devices using the Add Connection option.

Auto discovering Connections

BACnet auto discovery first discovers the devices on your network, and then allows you to go to each discovered device and auto-discover the data and control points for that device.

To discover BACnet devices on your network, navigate to the Connections tab and click the Discover button located at the top-right corner of the page.

Allow Super Skybox a few seconds to scan your network and display the detected devices on the page.

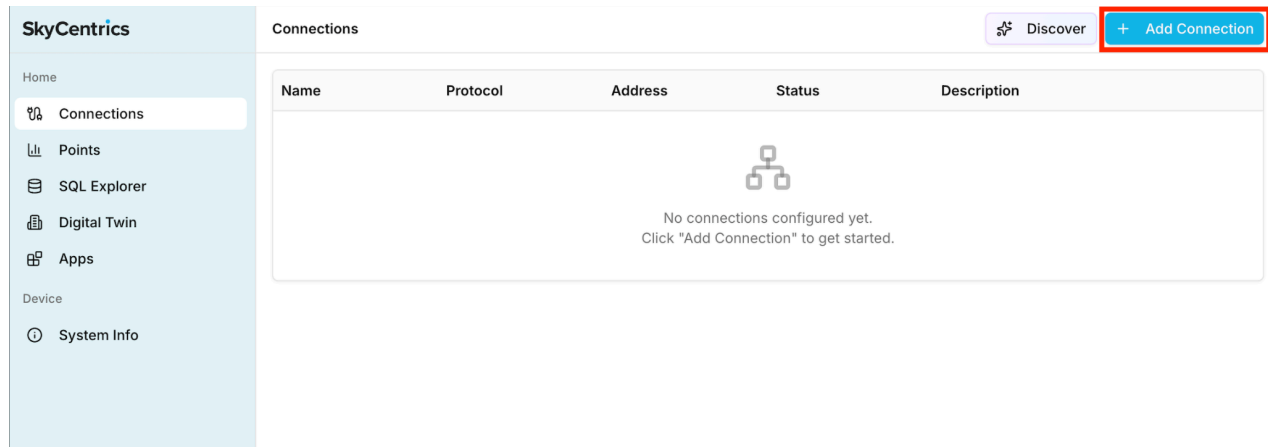


The screenshot displays the SkyCentrics web interface. On the left is a sidebar with navigation links: Home, Connections (selected), Points, SQL Explorer, Digital Twin, Apps, and a Device section with System Info. The main content area is titled 'Connections'. At the top right of this area are two buttons: 'Discover' (with a star icon) and '+ Add Connection'. The 'Discover' button is highlighted with a red rectangular box. Below the buttons is a table with the following headers: Name, Protocol, Address, Status, and Description. The table body is empty. Below the table, there is a message: 'No connections configured yet. Click "Add Connection" to get started.' accompanied by a small icon of three connected nodes.

Manually Adding Devices

To manually add a device connection, follow these steps:

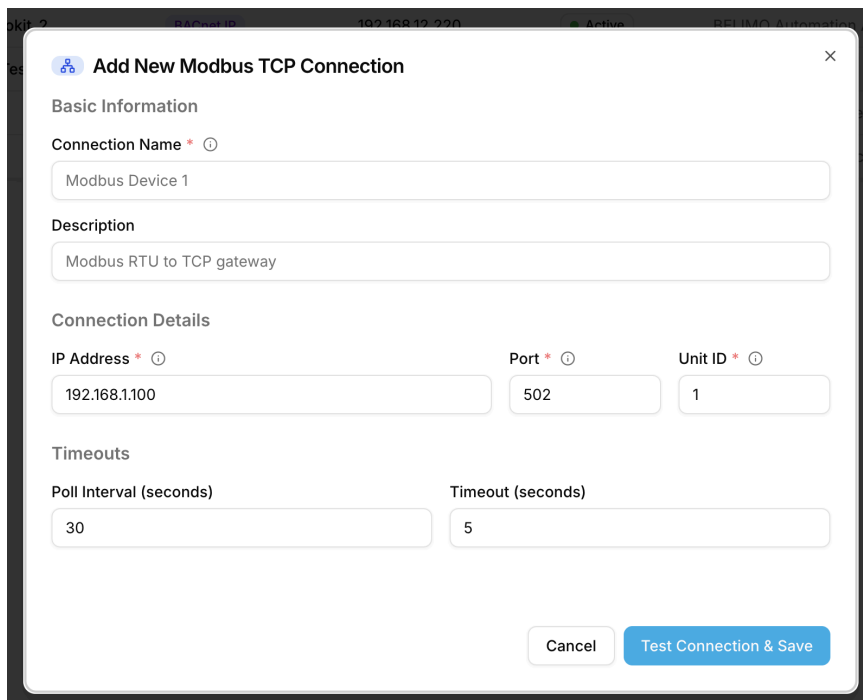
1. Click on + **Add Connection**.



2. Select the communication protocol used by the device: Modbus or BACnet.

Modbus connections:

1. Enter a connection name and description
2. Provide the device's IP address, port number (typically 502), and unit ID.



Add New Modbus TCP Connection

Basic Information

Connection Name * ⓘ
Modbus Device 1

Description
Modbus RTU to TCP gateway

Connection Details

IP Address * ⓘ: 192.168.1.100 Port * ⓘ: 502 Unit ID * ⓘ: 1

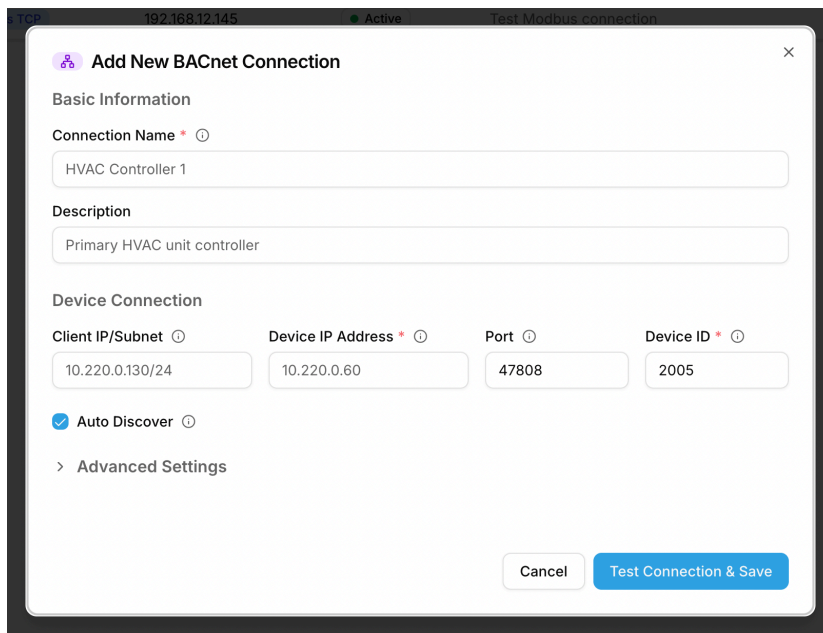
Timeouts

Poll Interval (seconds): 30 Timeout (seconds): 5

Cancel Test Connection & Save

BACnet connections:

1. Enter a name and description for the BACnet connection.
2. Then, provide the target address, port (typically **47808**), and device ID.

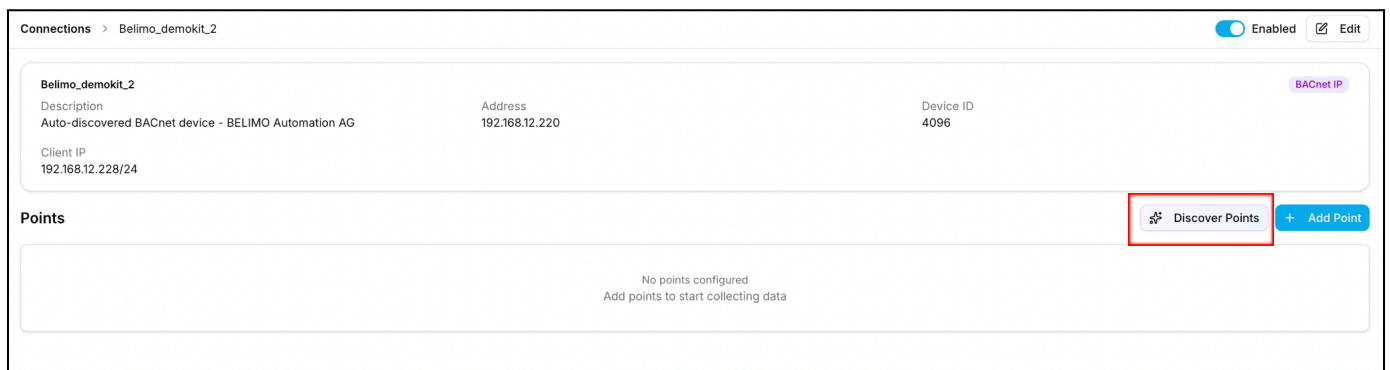


Next, click on the **Test Connection & Save** button.

The SSB will attempt to communicate with the device to verify that it is reachable on the network and that the selected protocol is correct. If the device is offline or not yet installed, this test would fail. Click on 'Save anyway', so that the device is added to the list and can be tested later.

Discover BACnet data points in each device

Once devices are discovered, **points are automatically discovered for each device**. You can also trigger point discovery manually at any time if needed.



Click on a device to discover the data and control points for that device. Then click on **Discover Points** within the connection page.

The discovered points are displayed as shown. By default, most points are disabled for cloud transmission. To enable a data point for cloud publishing, toggle the corresponding 'Send to cloud' switch. Once enabled, the data point will be included in the data sent to the cloud.

Connections > Belimo_demokit_2

Enabled

Edit

Belimo_demokit_2

Description

BELIMO Automation AG

Address

192.168.12.220

Device ID

4096

BACnet IP

Client IP

192.168.12.229/24

Poll Interval

60s

Points

Discover Points

+ Add Point

Object Name	Object Type	Instance	Zone	Room	Unit	Send to cloud
RelPos	Analog Input	1	—	—	%	☐
AbsPos	Analog Input	2	—	—	°	☐
SpAnalog	Analog Input	6	—	—	%	☐
S1	Analog Input	20	—	—	—	☐
S2	Analog Input	21	—	—	—	☐
SummaryStatus	Binary Input	101	—	—	—	☐
SpRel	Analog Output	1	—	—	%	☐

You can also manually add data points by clicking on the **+ Add Point** button.

Connections > Belimo_demokit_2

Enabled

Edit

Belimo_demokit_2

Description

BELIMO Automation AG

Address

192.168.12.220

Device ID

4096

BACnet IP

Client IP

192.168.12.229/24

Poll Interval

60s

Points

Discover Points

+ Add Point

Object Name	Object Type	Instance	Zone	Room	Unit	Send to cloud
RelPos	Analog Input	1	—	—	%	☐
AbsPos	Analog Input	2	—	—	°	☐
SpAnalog	Analog Input	6	—	—	%	☐
S1	Analog Input	20	—	—	—	☐
S2	Analog Input	21	—	—	—	☐
SummaryStatus	Binary Input	101	—	—	—	☐
SpRel	Analog Output	1	—	—	%	☐

You can specify the **Object Type**, **Instance**, and **Name**, along with optional details such as **Room** and **Zone**.

Add BACnet Point

Configure a new BACnet object for data collection

Object Type

analog-input

Instance

101

Object Name

Room_Temperature

Zone

HVAC_Zone_1

Room

Room 218

Cancel

+ Add Point

101

SummaryStatus

-

-

-

Rooms and Zones can also be added to automatically discovered points by editing their information. To do this, click the pencil icon highlighted below:

Connections
>
Belimo_demokit_2

Enabled
Edit

Belimo_demokit_2

Description
Auto-discovered BACnet device - BELIMO Automation AG

Address
192.168.12.220

Device ID
4096

Client IP
192.168.12.228/24

BACnet IP

Discover Points
Add Point

Object Type	Instance	Name	Zone	Room	Unit	Status	Actions
analogInput	1	RelPos	-	-	%	Enabled	 
analogInput	2	AbsPos	-	-	°	Enabled	 
analogInput	6	SpAnalog	-	-	%	Enabled	 
analogInput	20	S1	-	-	-	Enabled	 
analogInput	21	S2	-	-	-	Enabled	 

Renaming BACnet points

The **BACnet points** can be renamed if needed.

Go to the **Points** tab and click the **Edit Point Info** button.

SkyCentrics

Home
Connections
Points
SQL Explorer
Digital Twin
Apps
Device
System Info

Points

Search by point ID...

Edit Point Info

Point	Type	Zone	Room	Value	Unit
Belimo_demokit_2_4096_RelPos	Percentage	—	—	0	percent
Belimo_demokit_2_4096_AbsPos	State	—	—	0	degrees-angle
Belimo_demokit_2_4096_SpAnalog	Percentage	—	—	0	percent
Belimo_demokit_2_4096_S1	State	—	—	19	no-units
Belimo_demokit_2_4096_S2	State	—	—	59,461	no-units
Belimo_demokit_2_4096_SummaryS...	State	—	—	1	—

A prompt will appear that lets you first download the csv file containing all points currently being synced to the cloud.

No points found.

Edit Point Info

Step 1 — Download current points

Download a CSV of all cloud-synced points. You can set a display name (alias), override the units, apply a multiplicative scale factor, or set a hardware scale register address per point.

Download point_mapping.csv

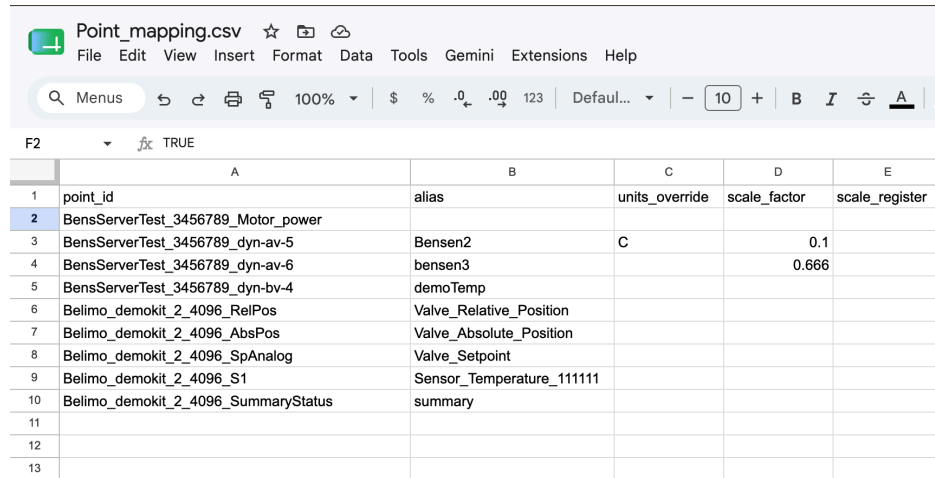
Step 2 — Upload filled CSV

Upload your edited CSV to apply changes. Blank cells are ignored — only filled columns are updated.

Click to select a .csv file

Upload and Apply

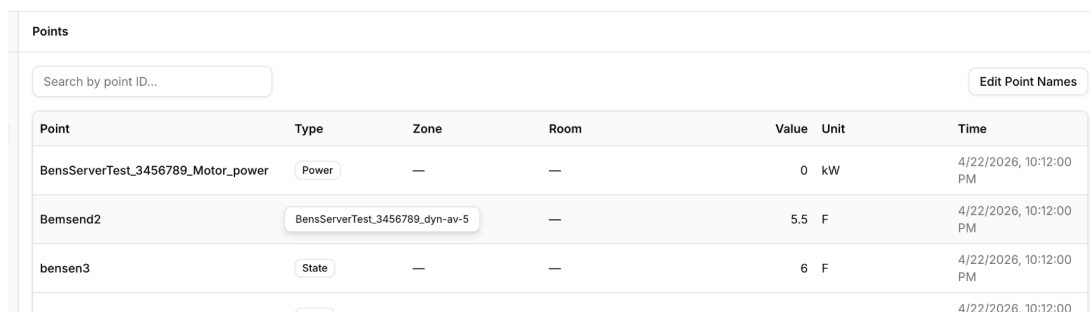
After downloading the file, enter the alias name next to each point in the CSV, then save it. Leave the rest of the columns blank if you do not want to change them. You can then import the file into Google Sheets or Excel using comma as the separator type, or by selecting detect automatically, to view it in the format below.



	A	B	C	D	E
1	point_id	alias	units_override	scale_factor	scale_register
2	BensServerTest_3456789_Motor_power				
3	BensServerTest_3456789_dyn-av-5	Bensen2	C	0.1	
4	BensServerTest_3456789_dyn-av-6	bensen3		0.666	
5	BensServerTest_3456789_dyn-bv-4	demoTemp			
6	Belimo_demokit_2_4096_RelPos	Valve_Relative_Position			
7	Belimo_demokit_2_4096_AbsPos	Valve_Absolute_Position			
8	Belimo_demokit_2_4096_SpAnalog	Valve_Setpoint			
9	Belimo_demokit_2_4096_S1	Sensor_Temperature_111111			
10	Belimo_demokit_2_4096_SummaryStatus	summary			
11					
12					
13					

Once saved, upload the updated CSV and click **Upload and Apply**. The point names will then be updated.

If a point is using an alias, you can hover over the name to see the original device point name. If the original name is being used, the hover text will display the same name.

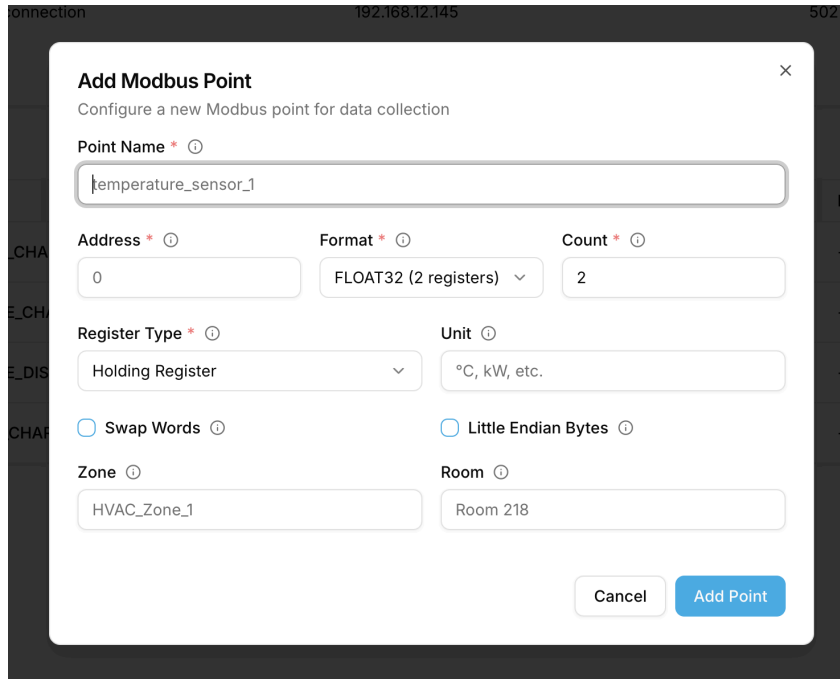


Point	Type	Zone	Room	Value	Unit	Time
BensServerTest_3456789_Motor_power	Power	—	—	0	kW	4/22/2026, 10:12:00 PM
Bemsend2	BensServerTest_3456789_dyn-av-5	—	—	5.5	F	4/22/2026, 10:12:00 PM
bensen3	State	—	—	6	F	4/22/2026, 10:12:00 PM
(truncated)	(truncated)	—	—	4	(truncated)	4/22/2026, 10:12:00 PM

You can add or remove any number of point aliases each time. Be sure to download the most recent points list if you have added new points recently.

Adding data points in a Modbus device

Open the Modbus connection and click the **+ Add Points** button. Enter details such as **Name**, **Register Address**, **Format**, **Register Type**, and other Modbus settings, then click **Add Point** to save.



Upcoming Enhancement

An upcoming feature will allow you to upload manufacturer-provided datasheets containing Modbus register information. Once uploaded, the system will automatically parse the register details and create the corresponding data points for the device, eliminating the need for manual entry.

You will also be able to upload a CSV file containing Modbus register definitions. The registers in the file will be automatically added to the polling configuration, making it easier to onboard devices with large numbers of points.

Post processing of Data

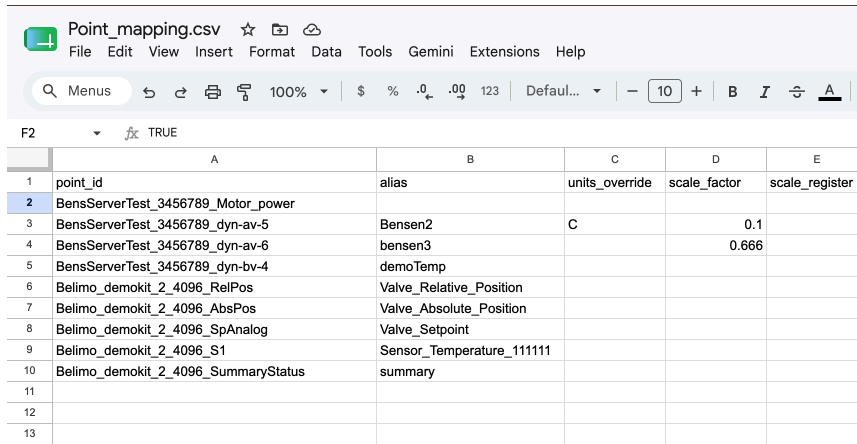
You can perform a set of operations on the polled data before sending it to the cloud. These operations can be defined in the downloaded CSV file.

1. Scaling

You can set a scaling factor to be applied to specific points and set scaling registers to fetch the scaling factor from.

To do this, download the CSV file by clicking the **Edit Point Info** button in the **Points** tab. You can then import the file into Google Sheets or Excel using comma as the separator type, or by

selecting detect automatically.



	A	B	C	D	E
1	point_id	alias	units_override	scale_factor	scale_register
2	BensServerTest_3456789_Motor_power				
3	BensServerTest_3456789_dyn-av-5	Bensen2	C	0.1	
4	BensServerTest_3456789_dyn-av-6	bensen3		0.666	
5	BensServerTest_3456789_dyn-bv-4	demoTemp			
6	Belimo_demokit_2_4096_RelPos	Valve_Relative_Position			
7	Belimo_demokit_2_4096_AbsPos	Valve_Absolute_Position			
8	Belimo_demokit_2_4096_SpAnalog	Valve_Setpoint			
9	Belimo_demokit_2_4096_S1	Sensor_Temperature_111111			
10	Belimo_demokit_2_4096_SummaryStatus	summary			
11					
12					
13					

Please enter the specific scaling factor or register in its respective column.

Note: If modifying the CSV file directly, note that it is a comma-separated values (CSV) file, where each comma represents a column separator. Be careful not to add or remove commas unintentionally, as this may shift data into the wrong columns and cause import issues. Use:

- Column 3 for unit_override
- Column 4 for scaling_factor
- Column 5 for scaling_register

The scaling factor will be multiplied by the polled data point before it is reported to the cloud.

If a scaling register is defined, the value from that register will be retrieved and multiplied by the data point before reporting to the cloud.

2. Units Override

When the BACnet points are scanned, they inherit the units configured by the manufacturer. If you want to override the units for the data points, you can enter the desired unit override in the appropriate column.

3. Incremental Accumulation

Some BACnet and Modbus points report a running total rather than an instantaneous value. The inc_accm setting converts these into incremental values per polling interval: the difference between the current reading and the previous one.

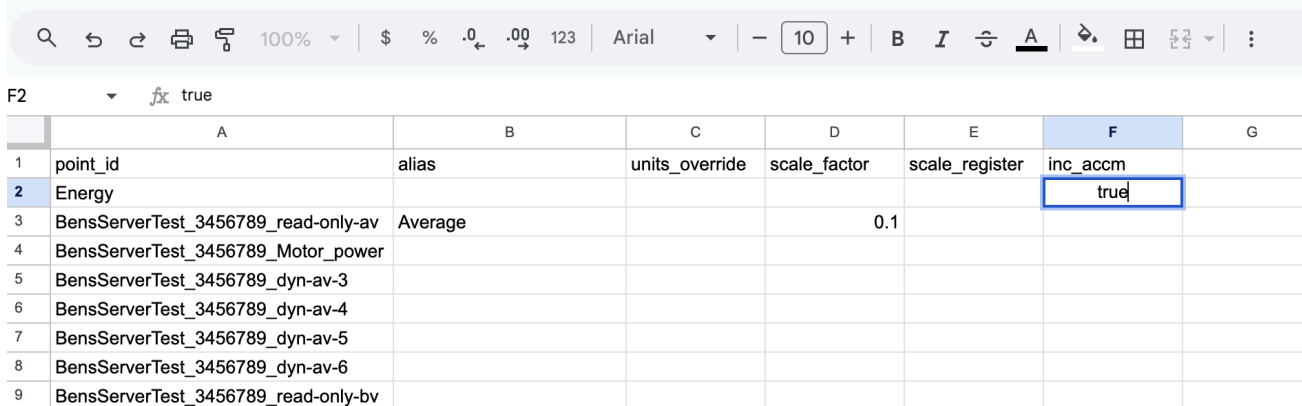
How it works:

- On each poll cycle, the agent subtracts the previous reading from the current one and logs the delta. If the current value is less than the previous (counter reset or rollover), the delta is recorded as 0 rather than a negative number.

- On the very first reading after startup, the delta is 0 (no previous value to compare against)

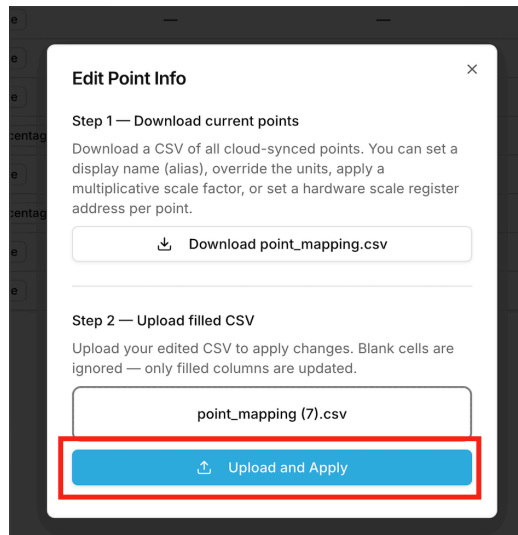
How to enable it:

- Add 'true' in the CSV column reserved for 'inc_accm'



	A	B	C	D	E	F	G
1	point_id	alias	units_override	scale_factor	scale_register	inc_accm	
2	Energy					true	
3	BensServerTest_3456789_read-only-av	Average		0.1			
4	BensServerTest_3456789_Motor_power						
5	BensServerTest_3456789_dyn-av-3						
6	BensServerTest_3456789_dyn-av-4						
7	BensServerTest_3456789_dyn-av-5						
8	BensServerTest_3456789_dyn-av-6						
9	BensServerTest_3456789_read-only-bv						

After entering all the information, save the file and upload it back, then click **"Upload and Apply."** If you need to remove a setting later, simply clear the corresponding value in the CSV file and upload it again. You can also modify any existing values in the CSV file and re-upload it to apply the changes.



Edit Point Info

Step 1 — Download current points

Download a CSV of all cloud-synced points. You can set a display name (alias), override the units, apply a multiplicative scale factor, or set a hardware scale register address per point.

Download point_mapping.csv

Step 2 — Upload filled CSV

Upload your edited CSV to apply changes. Blank cells are ignored — only filled columns are updated.

point_mapping (7).csv

Upload and Apply

The changes will be applied immediately, and the points being polled from then onward will reflect the updated configuration.

4. Writing Expressions & Running Totals

Virtual Points App (from the default apps) can be installed and used to do certain operations on points that are being polled.

It lets you create new calculated points on your SkyBox by writing simple math expressions that reference your existing points. Calculated results appear in the Points tab alongside your regular sensor data and are automatically sent to the cloud - no other configuration needed.

Common uses: unit conversions, combining two sensors into one value (e.g. net power), tracking running totals (e.g. accumulated energy), or computing rates of change.

Installing the App

1. On your SkyBox's local webpage, go to the Apps page.
2. Find Virtual Points in the catalog (or add it as a custom app if it's not listed) and click Install.
3. Once installed, open the app from the Apps page, or navigate directly to its URL (shown on the Apps page once running).

Once installed, Virtual Points runs on port 5100. To open it:

1. Find your SkyBox's IP address (the same one you use to reach its main local webpage).
2. In a browser, go to: `http://<SkyBox IP address>:5100`
For example, if your SkyBox is at 192.168.1.50, go to `http://192.168.1.50:5100`.

The Interface

The Virtual Points page has two main sections:

VIRTUAL POINTS Poll every sec Save

DEFINED POINTS (1)

POINT ID	EXPRESSION	UNITS	STARTING VALUE	CURRENT VALUE	STATUS
test_posdelta	333+{Belimo_demokit_2_4096_RelPos}	kw	70.0	333 kw	Enabled <a>Edit <a>Delete

ADD / UPDATE POINT

Point ID

Units (optional)

Expression

▸ Syntax reference

Starting Value (optional)

Only used if the expression references its own Point ID, and only until the first real value is stored

Description

☒ Enabled

Save Clear

Defined Points table - lists every calculated point you've created, showing:

- Point ID : the name this calculated point will appear under in your Points list.
- Expression : the formula being evaluated.
- Units : the unit label shown with the value (optional).
- Starting Value : used only the first time a self-referencing point is evaluated (see "Running Totals" below).
- Current Value : the most recently computed result, or an error message if the expression failed to evaluate.
- Status : a toggle showing Enabled/Disabled. Click it to quickly turn a point on or off without editing it.
- Edit / Delete : edit reopens the point in the form below for changes; delete removes the point and its stored history.
- Add / Update Point form — where you create new points or edit existing ones (click "Edit" on any row to load it here).

Fields:

- Point ID : a name for your new point (letters, numbers, underscore, and hyphen only).
- Units : optional label (e.g. kW, %, BTU).
- Expression : the calculation itself (see below for syntax).
- Starting Value : optional; only matters for points that reference their own value (running totals).
- Description : optional notes about what this point represents.
- Enabled : toggle to turn the point's calculation on or off.

There's also a Poll every [N] sec setting near the top of the page - this controls how often all your defined points are recalculated.

The Enabled toggle controls whether a defined point is actively calculated each poll cycle, without deleting it.

Enabled: the point's expression is evaluated every poll interval, its value is computed, sent to your Points list, and recorded in history as normal.

Disabled: the point is completely skipped. No calculation happens, nothing gets sent, no history is recorded for that cycle. Its row stays in the Defined Points table (with a "Disabled" badge and dimmed row), and its Current Value shows - instead of a number.

Referencing Existing Points

To use an existing point's value in your expression, wrap its exact Point ID in curly braces: {POINT_ID}

For example, if you have two existing points called GRID_POWER and SOLAR_POWER, you could compute net building power as: {GRID_POWER} + {SOLAR_POWER}

→ Point IDs are case-sensitive and must match exactly how they appear in your Points list (points tab), including any underscores or hyphens.

Operators

Standard arithmetic is supported: +, -, *, /, and parentheses () for grouping. Example: $\{TEMP_OUT\} - \{TEMP_IN\} * 2.5$

Special Functions

These help with rates of change and time-based calculations. Each takes exactly one point reference as its argument (you can't put a full expression inside them):

Function	What it does
<code>delta({POINT_ID})</code>	Change in the point's value since the last calculation. Can be negative.
<code>pos_delta({POINT_ID})</code>	Same as delta, but never returns a negative number (clamped to 0 minimum).
<code>reset_delta({POINT_ID})</code>	Same as delta, but if the point's value went backwards (e.g. a counter reset to zero), it uses the current value instead
<code>dt</code>	Seconds elapsed since this app's last calculation cycle.
<code>dt({POINT_ID})</code>	Seconds since that specific point's own reading last changed on the device (more accurate than plain dt when a point

Running Totals (Accumulation)

A calculated point can reference its own Point ID within its own expression to build up a running total over time - for example, tracking accumulated energy from a power reading:

$\{TOTAL_ENERGY_KWH\} = \{TOTAL_ENERGY_KWH\} + \{CURRENT_POWER_KW\} * dt / 3600$

Each time this runs, it takes the point's own previous value, adds the new amount computed this cycle, and stores that as the new value - exactly like an odometer:

new total = old total + this interval's increment

Set a Starting Value (usually 0) so the very first calculation has something to start from; after that, it always continues from its own last stored value, even across a restart.

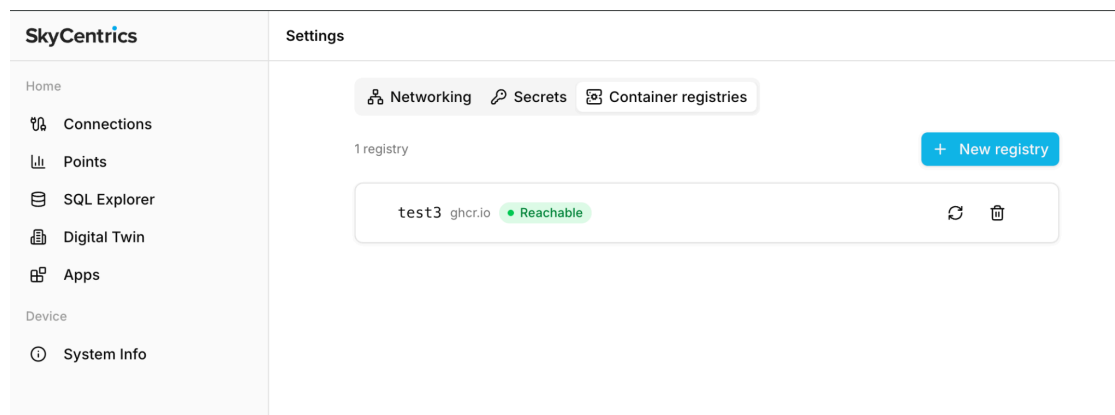
Deploy custom Apps on Super Skybox

Apps are Docker containers that run on the SkyBox. You can deploy a pre-configured app from the App Store, or deploy any custom Docker image directly.

Prerequisites

Public images (Docker Hub, GHCR, Quay, AWS ECR, Azure ACR, Google AR) require no setup. Private images require a registry to be configured first:

1. Go to Settings → Container registries

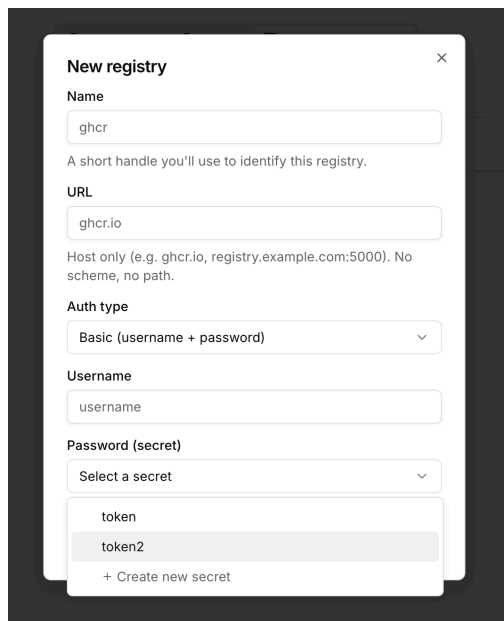


2. Click **Add Registry**

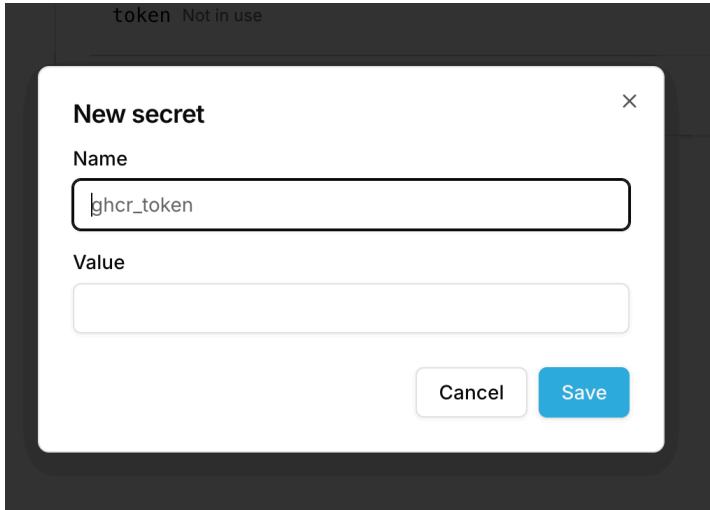
3. Fill in:

1. **Name** - a label for this registry (e.g. my-registry)
2. **URL** - the registry host only (e.g. ghcr.io or registry.example.com:5000)
3. **Auth Type** - basic (username + password) or ghcr (GitHub PAT)
4. **Username and Password**

4. Click Test to verify the connection shows green before proceeding

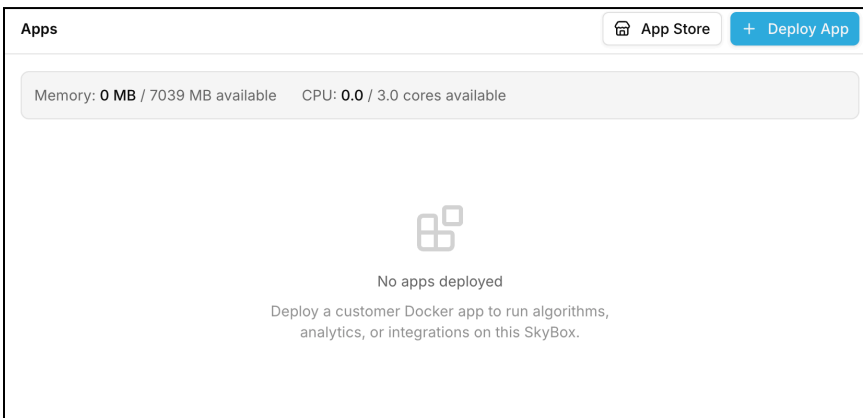


Note: You can also go to the **Keys** tab inside **Settings** to save a key for multiple registers and reuse it for the registers when prompted.



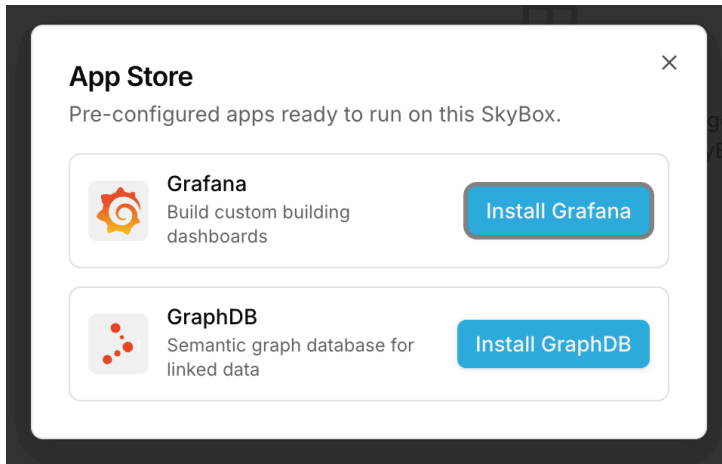
Next, proceed to the **apps tab**

There are two options to deploy an app :



Option A - Find it in App Store (pre-configured apps)

1. Navigate to the Apps page
2. Click App Store
3. Browse the catalog and click Install on the app you want

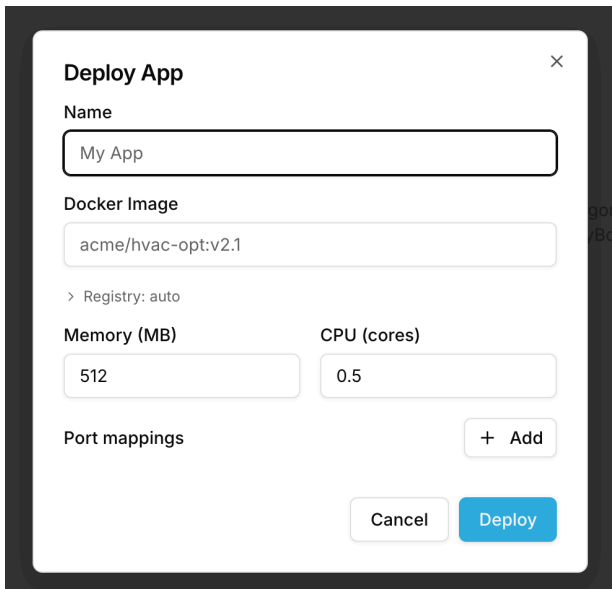


4. Adjust any settings shown (ports, resources) and confirm

Option B - Custom Docker image

Step 1: Navigate to the Apps page

Step 2: Click Deploy App



Step 3 - Fill in the deployment form

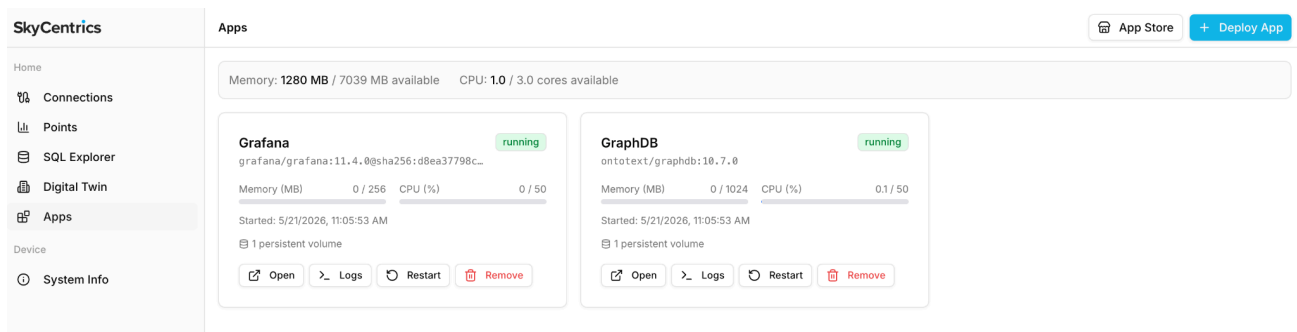
Only the Name and Image fields are required. All others are optional and have sensible defaults.

- Name : A display name for the app. This also becomes the container ID on the device.
- Image : The full Docker image reference, e.g. ghcr.io/acme/tool:v1.2
- Memory : RAM allocated to the container. Defaults to 512 MB; can be set between 64 MB and 4096 MB.
- CPU : CPU cores allocated. Defaults to 0.5; can be set between 0.1 and 4.0.
- Ports : Maps a host port to a container port. Add one or more mappings if the app exposes a web interface or API.

After deployment

The app appears as a card on the Apps page showing:

- Status badge - green (running), red (exited/dead), yellow (restarting)
- Memory and CPU bars - live resource usage vs. allocated limit
- Uptime - time since the container started



The screenshot shows the SkyCentrics interface with a sidebar on the left containing links to Home, Connections, Points, SQL Explorer, Digital Twin, Apps, and Device. The main area is titled 'Apps' and shows two containers: 'Grafana' and 'GraphDB'. Both are in a 'running' state. The Grafana container shows memory usage at 0 / 256 MB and CPU usage at 0 / 50%. The GraphDB container shows memory usage at 0 / 1024 MB and CPU usage at 0.1 / 50%. Both containers have a 'Started' time of 5/21/2026, 11:05:53 AM and 1 persistent volume. At the bottom of each container card are buttons for 'Open', 'Logs', 'Restart', and 'Remove'.

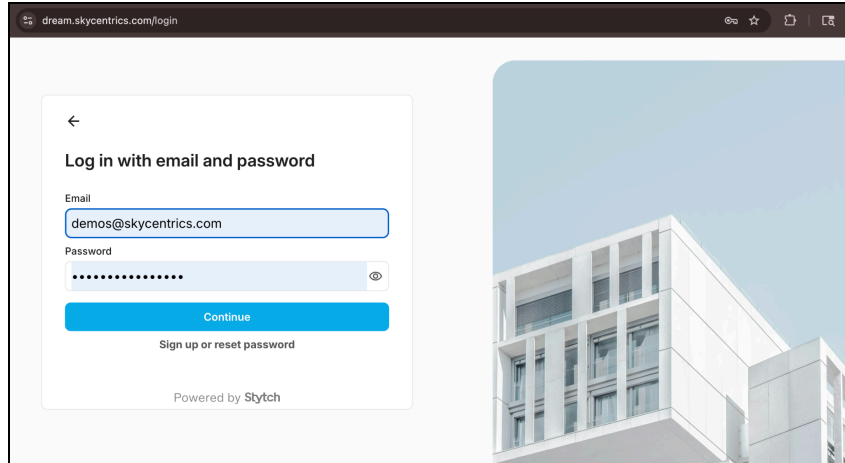
Available actions:

- Open** - opens the app in the browser (only shown if ports are configured)
- Logs** - view live container output
- Restart** - restart the container manually
- Remove** - stop the container; optionally delete its persistent volumes

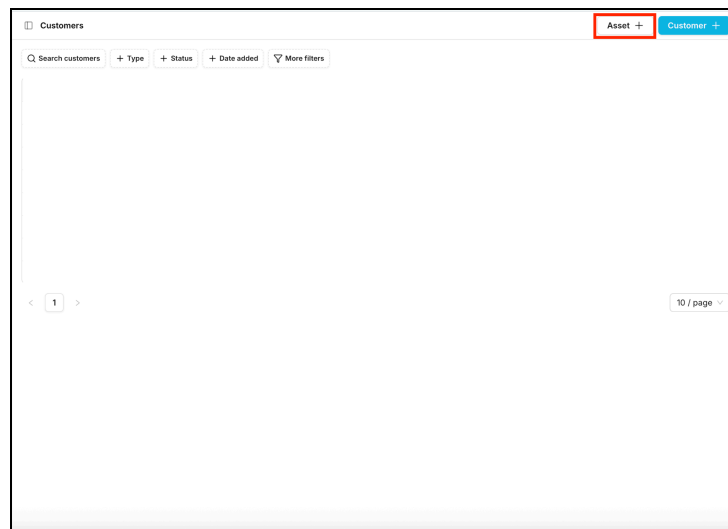
Now, you can proceed to create or access your account on the DREAM™ platform and view all the incoming data points.

Super SkyBox Data on DREAM™

1. Go to <https://dream.skycentrics.com/login> and login with your DREAM™ account credentials. If you don't have an account, please create one instead.



2. Select the organization and continue to the dashboard. Once here, click on **add asset** in the top right corner:



3. Select Super Skybox under Gateways.

Select asset type and manufacturer

Select category of asset you want to add.

Connected by EcoPort

Connected by SkyBox

Connected by 3rd party API

Water Heaters - Residential Tank

EcoPort Water Heater

SkyCentrics Switch

Emerson Switch

Water Heaters - Central System

Mitsubishi QAHV

WaterDrop (SPS)

Colmac

Sanco

Thermostats

Ecobee Thermostat

EcoPort Mitsubishi Mini-split

EV Chargers

Siemens

Emporia

Vehicle-to-Home (V2H)

Pool Controls

Gas Pool Heaters

EcoPort Pool Controls

Solar Inverters

SolarEdge

Enphase

Fronius

Batteries

SolarEdge

Enphase

Backpack

Fronius

Meters

e-Gauge

Emporia

Rainforest Eagle

Flow meter

Gateways

Super SkyBox

Occupancy

Butlr

Senseware

Density

Indoor Air Quality

Senseware

Mechanical Equipment

Boilers/Chillers

Central Plants

Pumps

VRFs

Devices

ControlByWeb

Shelly

PLCs - Distech, Carel

IBB

Connection profiles

4. Enter the serial number found on the super skybox under the QR code, marked “SN” (example highlighted)

<

Connection details

>

Provide details to enable connection with this asset

SUPER SKYBOX

MA02

Assembled in USA

34 2025

SVDC 2791

MANUAL







0XXX000XXX00

Serial number

2CCF6760A24

>

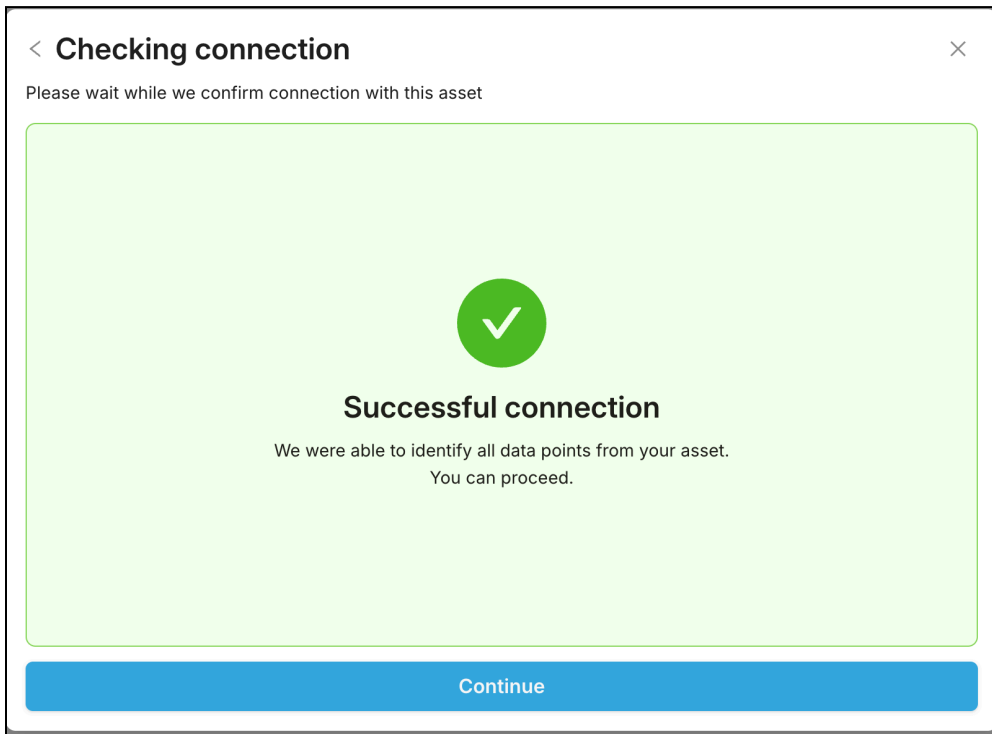
SkyBox name

My Super Skybox

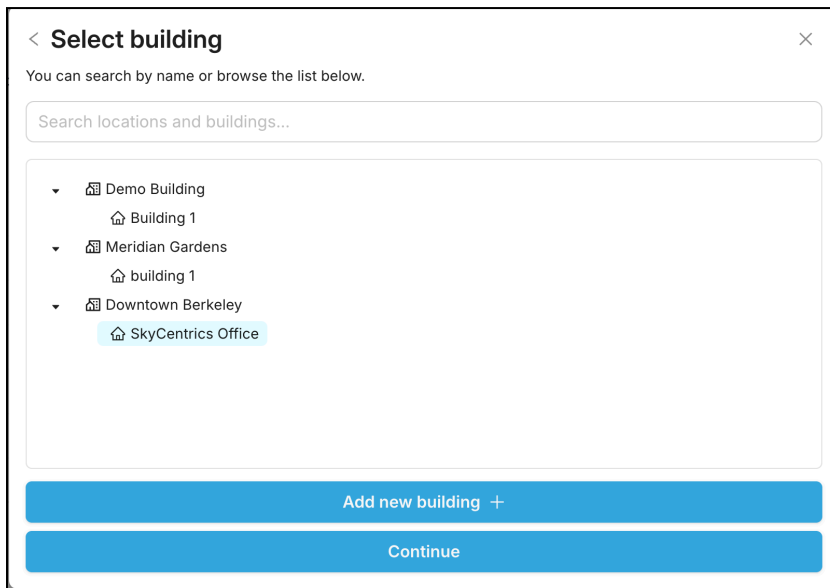
>

Continue

5. If the Super Skybox is online, the next page should appear as follows. Click on continue



6. Select from an existing building or create a new building



< **Building details**

Provide details of the building you want to add.

* Location

Downtown Berkeley

Building name

e.g. Tower A - Office Complex

* Number of floors

1

* Address

e.g. 314 2nd Street

* City

e.g. San Francisco

* State

Select state

* ZIP code

e.g. 90210

Continue

7. Once added, the asset will appear under the location and/or building assigned:

SkyCentrics

Locations > Downtown Berkeley

Asset + Building +

Location Details

Number of buildings: 1, Number of assets: 1

SkyCentrics Office

1 asset(s)

Search assets, # Serial number, + Type, + Last heartbeat, + Power (W)

"Downtown Berkeley" assets

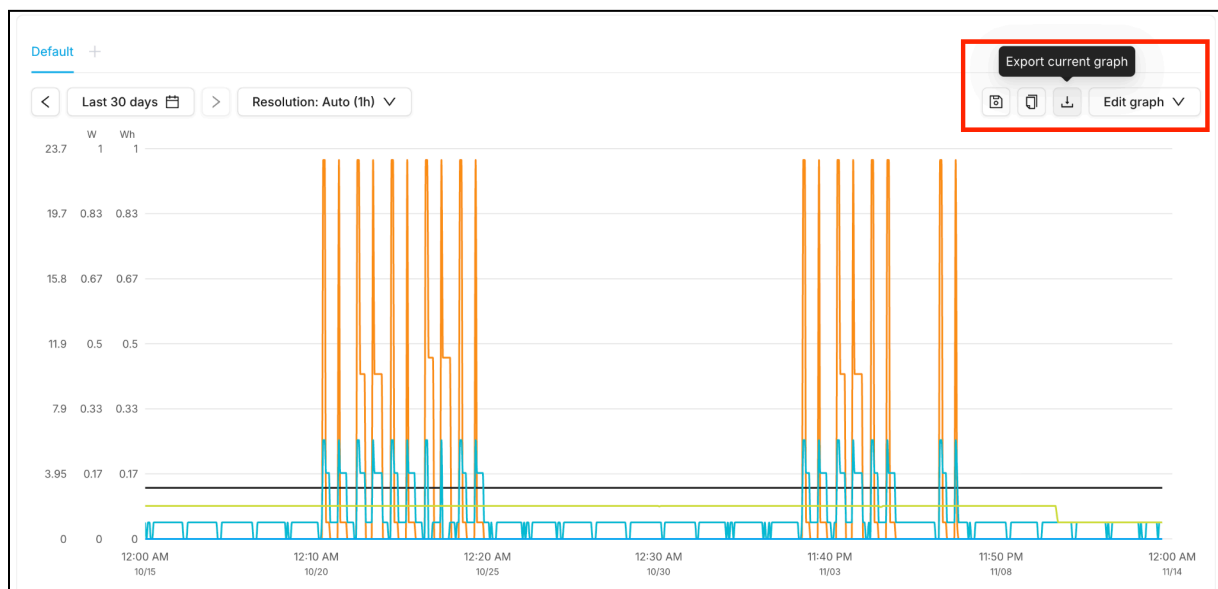
Name	Type	Manuf.	Building	Model	Power (W)	Last heartbeat
Super Skybox Office UI Test	Gateway	SkyCentrics	SkyCentrics Offi...	-	-	11/12/25, 2:26 PM

1 / page

8. Once your device has been added, the “Data” tab will show the last recorded value for each data point, and the “Graphs” tab allows you to view and customize visual representations of your data points:



9. Data can be exported from the “Graphs” tab using the option highlighted below. This will create a .csv file with the data fields and time range selected and displayed:



End of Manual