

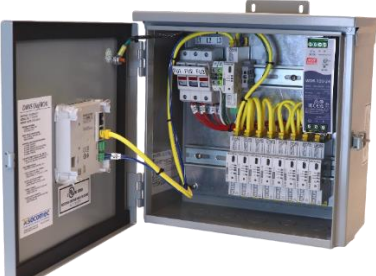
DIRIS DigiBOX M PRO (with D-70 display)

UL/CSA
Ed.2

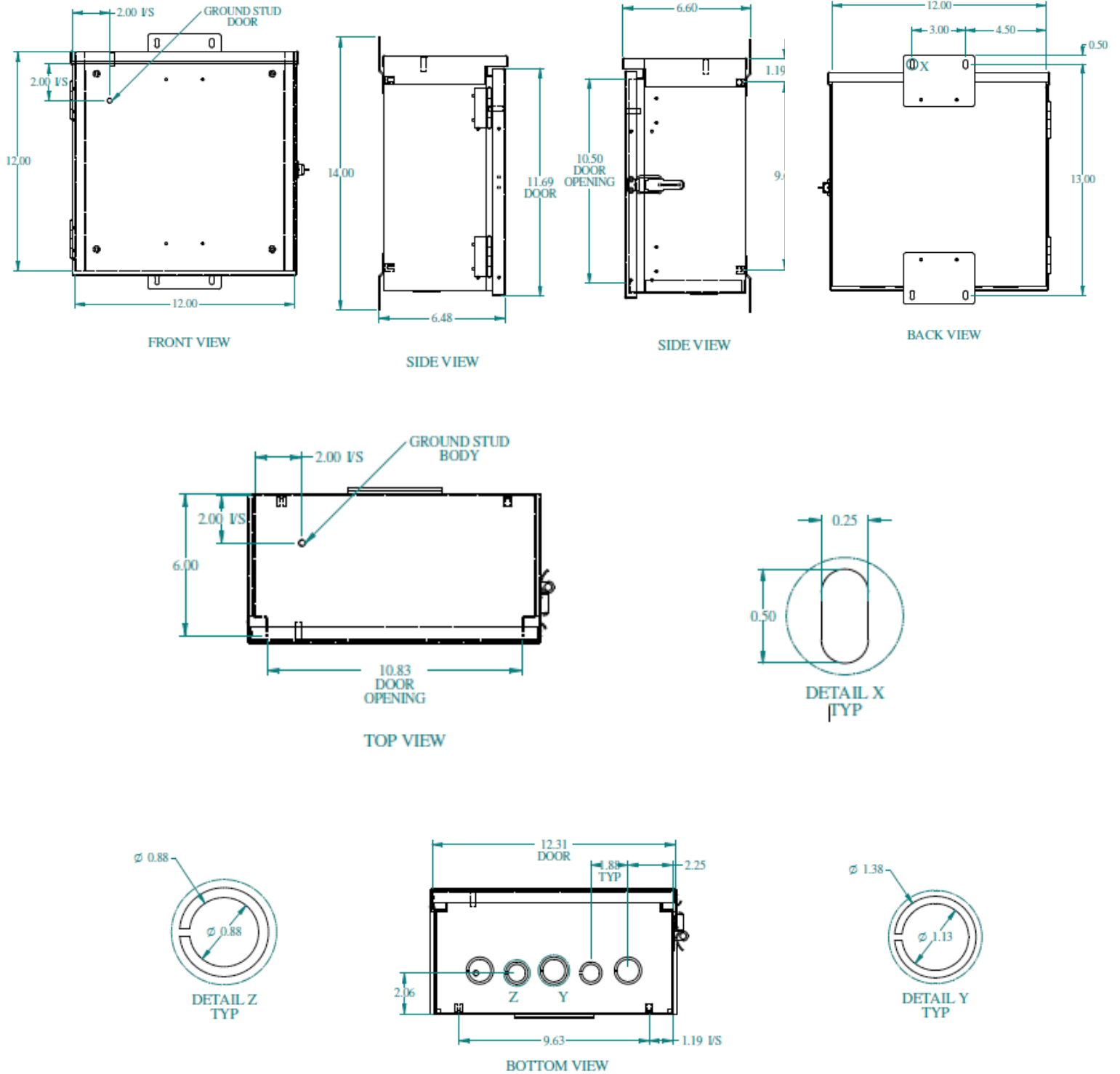


Introduction:

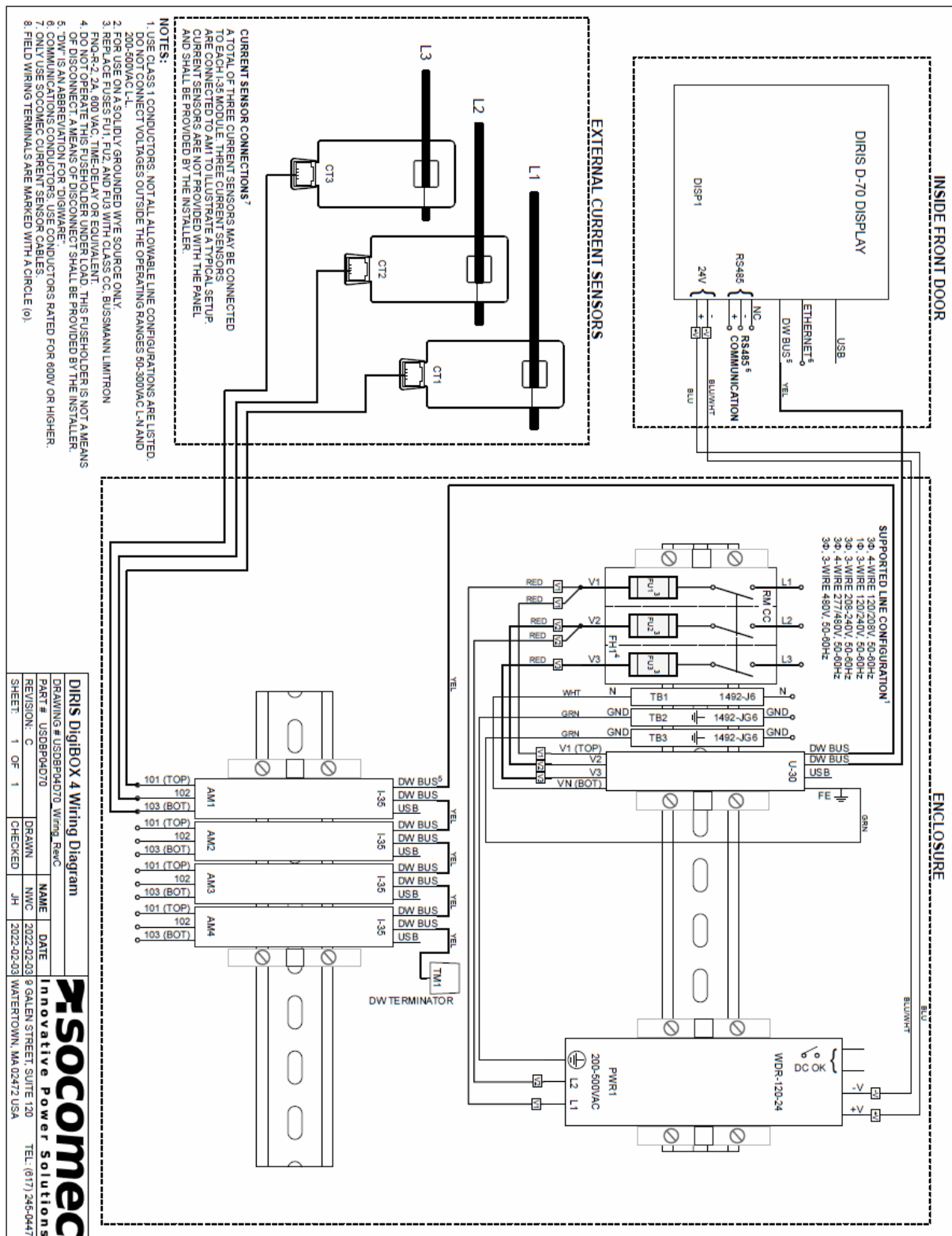
The purpose of this document is to explain the steps of installing and configuring the DIRIS DigiBOX M PRO.

Part Number	Description	
USDBP04D70	DIRIS DigiBOX M4 PRO; D-70 display; 4 metering points/12 CT channels; Steel NEMA 12/3R enclosure; RS485 + Ethernet communication + WEBVIEW-M webserver; 200 – 500 VAC Power supply; prewired with fused voltage connections	
USDBP08D70	DIRIS DigiBOX M8 PRO; D-70 display; 8 metering points/24 CT channels; Steel NEMA 12/3R enclosure; RS485 + Ethernet communication + WEBVIEW-M webserver; 200 – 500 VAC Power supply; prewired with fused voltage connections	

Dimensions (in):



> USDBP04D70





Technical characteristics:

Electrical characteristics

Auxiliary power supply	
Voltage input	200-500 VAC
Frequency	50/60 Hz

Measurement characteristics

Power and energy measurement	
Accuracy active energy and active power	Class 0.2, DigiBOX M alone Class 0.5 with TE, iTR, TF sensors Class 1 with TR sensors
Accuracy reactive energy	Class 1 with TE, iTR, TF sensors
Power factor measurement	
Accuracy	Class 0.5 with TE, iTR, TF sensors Class 1 with TR sensors
Voltage measurement	
Electrical network type	Single-phase (1P2W) / Two-phase (2P2W) / Two-phase with neutral (2P3W) / Three-phase (3P3W) / Three-phase with neutral (3P4W)
Voltage measurement rating	500-300 VAC (Ph-N) / 87-520 VAC (Ph-Ph) – CAT III
Voltage accuracy	Class 0.2
Voltage input consumption	≤ 1 VA
Frequency range	45 – 65 Hz
Frequency accuracy	Class 0.02
Current measurement	
Number of current inputs	DigiBOX M4: 12 DigiBOX M8: 24
Associated current sensors	Solid-core TE, split-core TR/iTR, flexible Rogowski TF
Connection	Socomec RJ12 cables
Accuracy	Class 0.2 DigiBOX M alone Class 0.5 with TE, iTR, TF sensors Class 1 with TR sensors

Mechanical characteristics

Application	Indoor installations
Enclosure	Steel, finished in ANSI 61 gray powder coating
Enclosure dimensions (in)	12 (H) x 12 (W) x 6 (D)
Protection rating	NEMA 12/3R; IP24
Operational temperature	+14 ... +158 °F / -10 °C ... +70 °C
Altitude	≤ 9840 ft / 3000 m

Communication characteristics

RS485	
Link	RS485
Connection type	2 to 3 half duplex wires
Protocol	Modbus RTU
Baudrate	9600 – 115200 baud
Ethernet	
Link	Ethernet
Connection type	RJ45 10/100 Mbps
Protocol	Modbus TCP/IP, BACnet IP, SNMP v1, v2, v3
USB	
Link	Micro USB Type b
Protocol	Modbus RTU
Use	Configuration via Easy Config System and firmware upgrade via Product Upgrade Tool

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1. Hazards and Warnings

The term "device" used in the following paragraphs refers to the DigiBOX M PRO and its associated current sensors (TE, TR/iTR or TF). The assembly, use, servicing and maintenance of this equipment must only be carried out by trained, qualified professionals.

SOCOMEK shall not be held responsible for failure to comply with the instructions in this manual.

1.1 Risk of electrocution, burns or explosion

	Caution: risk of electric shock	Ref. ISO 7000-0434B (2004-01)
	Caution: refer to the accompanying documentation each time this symbol is shown	Ref. ISO 7000-0434B (2004-01)

- Only duly authorized and qualified personnel may work or install/uninstall the device.
- The instructions are valid together with the specific instructions for the device.
- The device is designed only for its intended purpose as set out in the instructions.
- Only accessories authorized or recommended by SOCOMEC may be used in association with the device.
- Before proceeding with installation, maintenance, cleaning, disassembly, connection, or maintenance work, the device and system must be cut off from the mains to avoid electrocution and damaging the system and device.
- This device is not designed to be repaired by the user.
- For any questions related to the disposal of the device, please contact SOCOMEC



Do NOT clamp or pull out NON-INSULATED conductors carrying DANGEROUS VOLTAGE which could cause an electric shock, burn or arc flash.
Ref. IEC 61010-2-032

Failure to comply with the instructions of the device and this safety information can cause bodily injury, electric shock, burns, death or damage to property.

1.2 Risk of Damaging the Device

	Caution: risk of electric shock	Ref. ISO 7000-0434B (2004-01)
	Caution: refer to the accompanying documentation each time this symbol is shown	Ref. ISO 7000-0434B (2004-01)

To ensure that the device operates correctly, make sure that:

- The device is correctly installed.
- The network frequency indicated on the device is observed: 50 or 60 Hz.
- A maximum voltage at the voltage input terminals of 520 VAC phase/phase or 300 VAC phase/neutral is observed.
- Always connect the TE, TR/iTR or TF current sensors using Socomec RJ12 cables and observing the maximum prescribed currents.
- Only use RJ45 SOCOMEC cables to interconnect the modules via the Digiware bus

Failure to respect these precautions could cause damage to the device.

1.3 Responsibility

- Assembly, connection and use must be carried out in accordance with the installation standards currently in force.
- The device must be installed in accordance with the rules given in this manual.
- Failure to observe the rules for installing this device may compromise the device's intrinsic protection.
- The device must be placed in a system which itself complies with the applicable standards and safety regulations of the country of installation
- Any cable which needs to be replaced may only be replaced with a cable having the correct rating.
- Despite constantly striving for quality in preparing this manual, errors or omissions are always a possibility and are not the responsibility of SOCOMEC.

2. Conduit Hole

The DIRIS DigiBOX M is shipped with conduit holes which will need to be knocked out on the bottom of the enclosure. See the below drawings for conduit hole locations.

1. Open the enclosure door.
2. Only remove the tab from the desired conduit hole, where the conduit fittings will be installed.
3. To maintain the enclosure's environmental rating, the installer must use conduit hubs/fittings with the same environmental rating as the enclosure.
4. Maintain spacing of at least ½ inch between conduit hubs/fittings and uninsulated live conductors.
5. Use "Grounding" conduit fittings with built-in set screws. Run insulated copper conductors, 16awg or thicker, from fittings to spare ground terminal blocks.
6. Route incoming voltage conductors at least ¼ inch away from current sensor and signal conductors. Route current sensor conductors at least ¼ inch away from communication conductors.
7. Use cable ties to secure conductors to each other and to maintain spacing

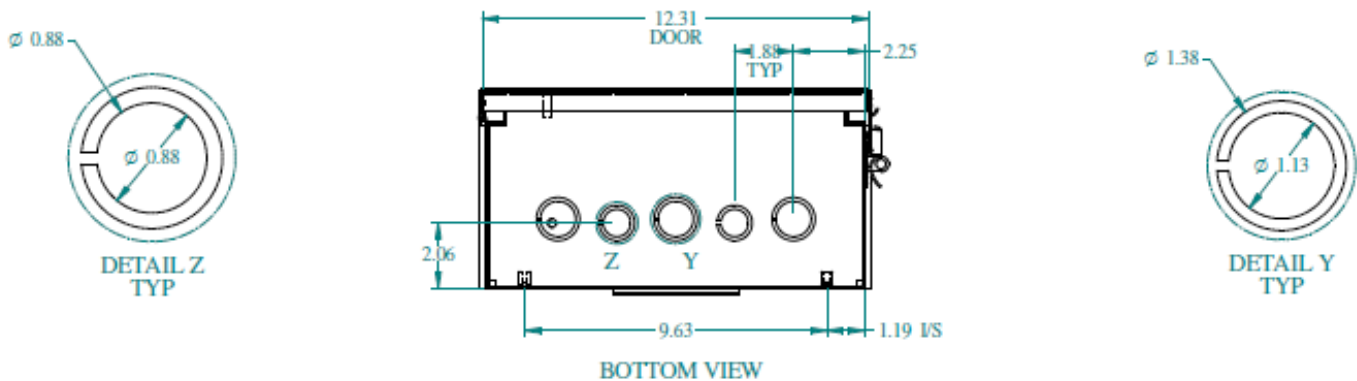


Figure 1: Conduit hole locations

3. Mounting the DIRIS DigiBOX M PRO

1. Position the DIRIS DigiBOX M on the desired mounting surfaces.
2. Using the appropriate hardware fasten the DigiBOX M PRO to the desired surface by placing the appropriate fastening hardware through the DigiBOX M PRO mounting tabs.



Figure 2: Top and Bottom DigiBOX M PRO mounting Tabs

4. Wiring of the system



Before wiring the system, make sure that the fuses are NOT installed. The fuses are to be installed AFTER all wiring is complete.

Use class 1 conductors and the input voltage must be 200 -520VAC L-L.

Behind the enclosure door the prewired components and the components that need to be wired can be seen.

1. Wire the voltage according to the designated fuse holder (L1, L2, L3, and N) and feed the cables out of a conduit hole.



Figure 3: Wire the voltage based on the labeled fuse holders (note that the fuse holders are empty).

2. Plug in the RJ12 cables to the DIRIS Digiware I-35 meter modules and feed the RJ12 cables out of a conduit hole. Each DIRIS Digiware I-35 meter module has 3 CT inputs, allowing to monitor a 3-phase load or 3 x single-phase loads.

Note: For a three-phase system

- Current sensor on phase A should be connected to I01 RJ12 port of DIRIS Digiware I-35,
- Current sensor on phase B should be connected to I02 RJ12 port of DIRIS Digiware I-35,
- Current sensor on phase C should be connected to I03 RJ12 port of DIRIS Digiware I-35.

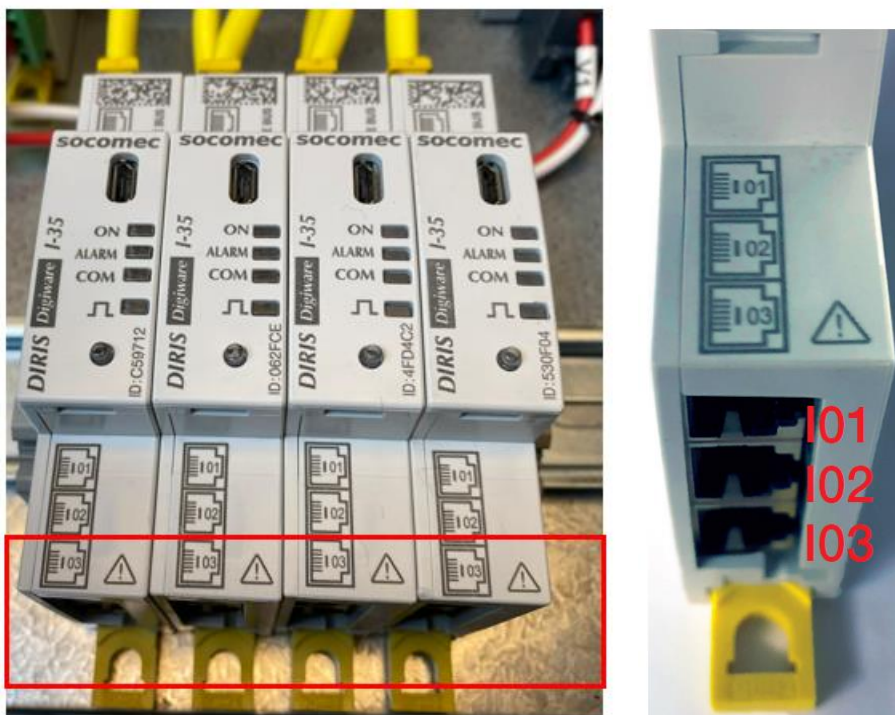


Figure 4: The boxed area is where the RJ12 cables are inserted on DIRIS Digiware I-35.

In case of wiring errors (orientation of current sensor or phase association), software correction is possible without physically changing the wiring of current sensors (refer to **5.4.3, paragraph 2** to change current sensor settings).

3. Connect the current sensors to the load and plug the current sensors into the RJ12 cables connected to the DIRIS Digiware I-35 modules.
4. Plug in the Ethernet or RS485 bus depending on which communication protocol will be used, and feed the cables out of a conduit hole.
5. Maintain spacing of at least ½ inch between conduit hubs/fittings and uninsulated live conductors. Use cable ties to secure conductors to each other and to maintain spacing.
6. Put fuses provided in the black bag into the fuse holders
7. The products should now be on.

5. Configuring the DigiBOX M

5.1 Making sure firmware is up to date

1. Before commissioning your DIRIS DigiBOX M PRO, make sure the associated devices DIRIS Digiware D-70, U-30, I-35 operate under the latest firmware versions.

The latest firmware versions are available on the Socomec website and firmware upgrade is done using the Product Upgrade Tool software, by connecting a laptop to the Micro USB port of the desired device.

Go to the website to download the Product Upgraded Tool:

https://www.socomec.com/product-upgrade-tool-software_en.html

2. Under the “Firmware” section, download firmware pertaining to the module being updated (Diris Digiware D-70, U-30, and I-35). **Please note that the firmware downloaded from the website is a zip file. DO NOT unzip the file, just directly upload the file into Product Upgrade Tool.**

Product Upgrade Tool software



Socomec Product Upgrade Tool

The "Socomec Product Upgrade Tool" is a software that helps you upgrade the DIRIS Digiware, DIRIS B, DIRIS G, ISOM Digiware and ISOM K products. It enables you to easily upgrade the product's firmware with a computer through an USB cable. You can download the "Socomec Product Upgrade Tool" and the firmware of all devices below.

[pdf Download the software user manual](#)

[Download Socomec Product Upgrade Tool](#)

Firmware

Select the product to download the firmware



- [ATyS C55 - Ref 16000055 - v2.1](#)
- [ATyS C65 - Ref 16000065 - v2.1](#)
- [DIRIS Digiware D-30 - Ref 48290200 - v1.10](#)
- [DIRIS Digiware D-40 - Ref 48290199 - v1.6](#)
- [DIRIS Digiware D-50v2 - Ref 48290204 - v2.5 \(upgrade via PUT software\)](#)
- [DIRIS Digiware D-50v2 - Ref 48290204 - v2.5 \(upgrade via web interface\)](#)
- [DIRIS Digiware D-70v2 - Ref 48290203 - v2.5 \(upgrade via PUT software\)](#)**
- [DIRIS Digiware D-70v2 - Ref 48290203 - v2.5 \(upgrade via web interface\)](#)
- [DIRIS Digiware M-50 - Ref 48290221 - v1.2 \(upgrade via PUT software\)](#)
- [DIRIS Digiware M-50 - Ref 48290221 - v1.2 \(upgrade via web interface\)](#)
- [DIRIS Digiware M-70 - Ref 48290222 - v1.2 \(upgrade via PUT software\)](#)
- [DIRIS Digiware M-70 - Ref 48290222 - v1.2 \(upgrade via web interface\)](#)
- [DIRIS Digiware U-10 - Ref 48290105 - v1.9](#)
- [DIRIS Digiware U-20 - Ref 48290106 - v1.7](#)
- [DIRIS Digiware U-30 - Ref 48290102 - v1.11](#)**
- [DIRIS Digiware U-31dc - Ref 48290150 - v1.4](#)
- [DIRIS Digiware U-32dc - Ref 48290151 - v1.2](#)
- [DIRIS Digiware I-30 - Ref 48290110 - v1.11](#)
- [DIRIS Digiware I-30dc - Ref 48290156 - v1.1](#)
- [DIRIS Digiware I-31 - Ref 48290111 - v1.9](#)
- [DIRIS Digiware I-33 - Ref 48290128 - v1.9](#)
- [DIRIS Digiware I-35 - Ref 48290130 - v1.11](#)**
- [DIRIS Digiware I-35dc - Ref 48290157 - v1.4](#)

Figure 5: The firmware to be downloaded.

3. Plug in a micro USB cable to the back of the DIRIS Digiware D-70 or associated module (U-30 module, I-35 module).

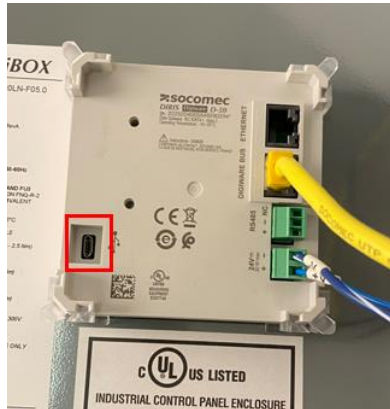


Figure 6: The micro USB port on the DIRIS Digiware D-50.

4. Open the Product Upgrade Tool software to get the below screen:

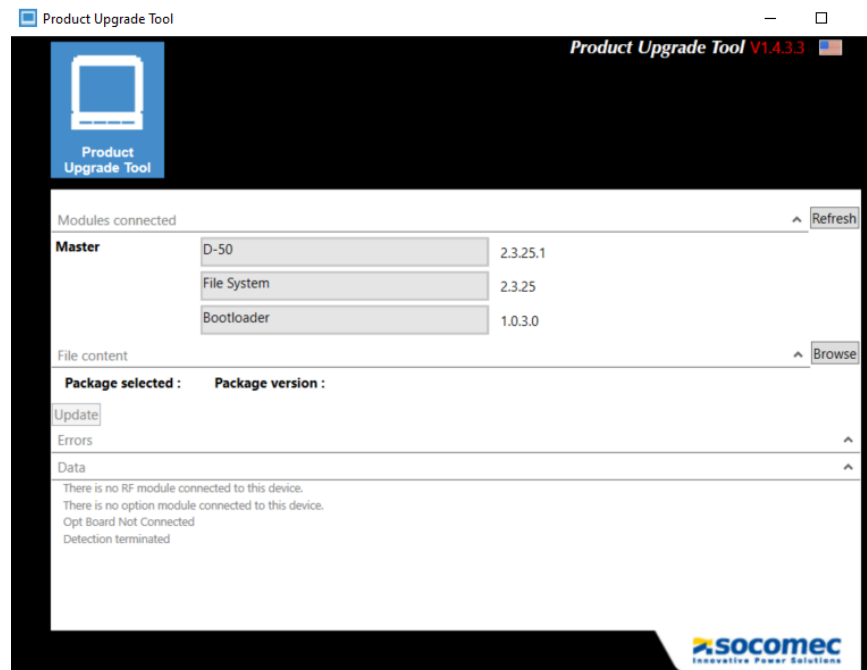


Figure 7: Product Upgrade tool home screen.

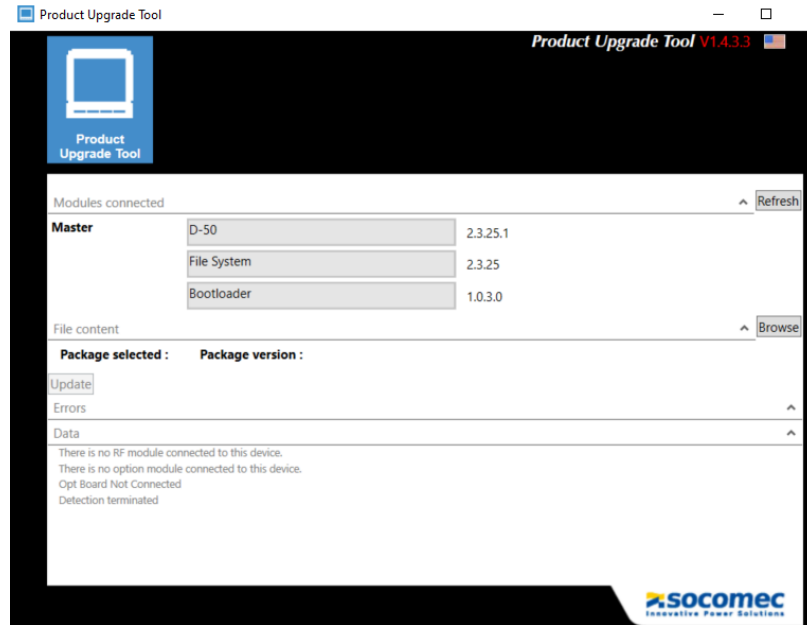


Figure 8: Screen after the refresh button is pressed.

5. Click “Browse” and select the firmware folder that was downloaded.
 - An orange symbol means the firmware selected is the same as the one on the DIRIS Digiware D-70.
 - A green symbol means that the firmware selected is more recent than the one currently on the DIRIS Digiware D-70 and an upgrade is possible.
 - A red symbol means that the firmware selected is a lower version than the one currently on the DIRIS Digiware D-70.

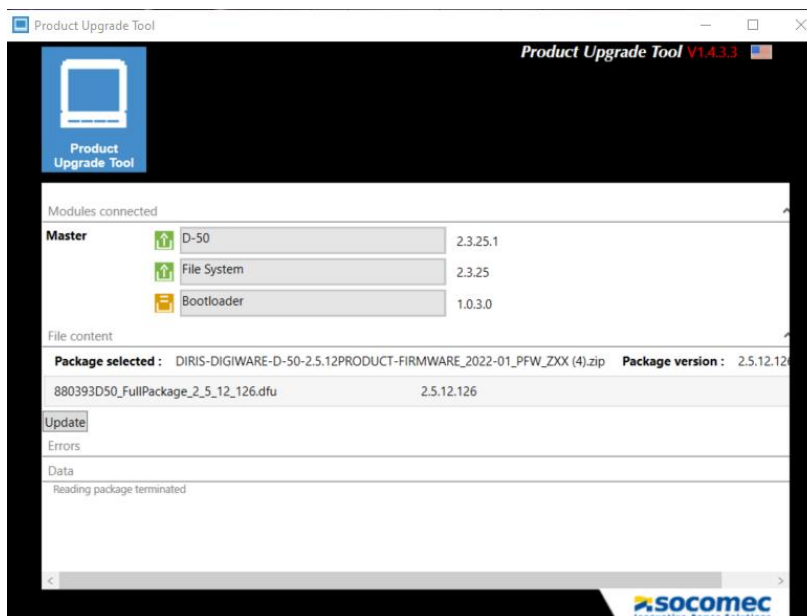


Figure 9: Product upgrade tool screen once the firmware is selected.

- Click “Update” if needed. Once the firmware is up to date you will see the following screen

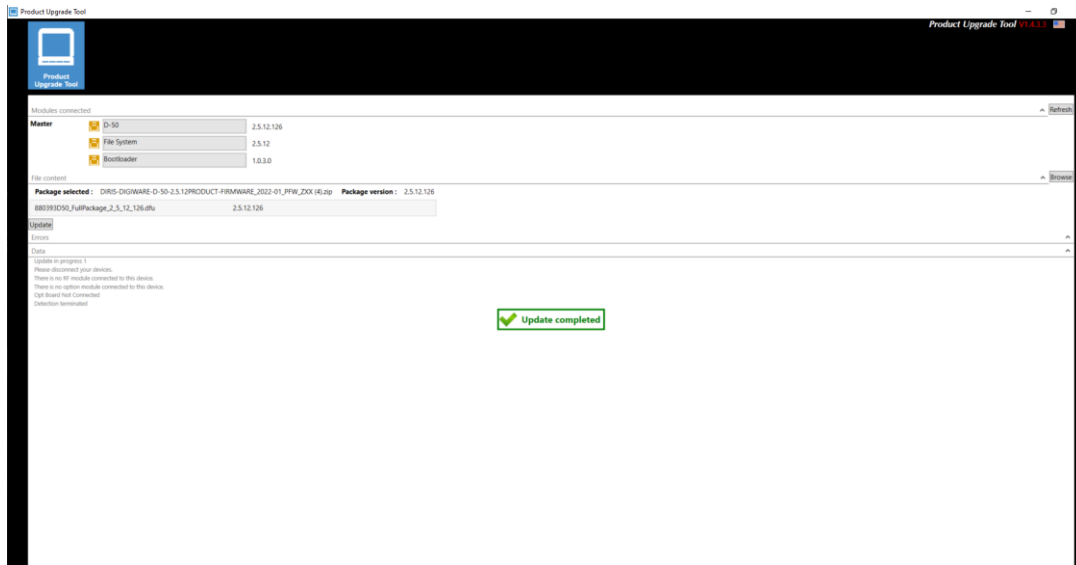


Figure 10: Product Upgrade Tool screen once update is complete.

Note: DIRIS Digiware D-50 Used in Example

- Repeat the same operation for DIRIS Digiware U-30 and I-35 modules if necessary.



Figure 4: The micro USB port on the DIRIS Digiware U-30

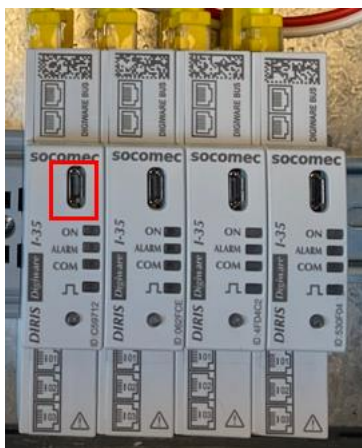


Figure 5: The micro USB port on the DIRIS Digiware I-35

5.2 Configuration via the D-70 display

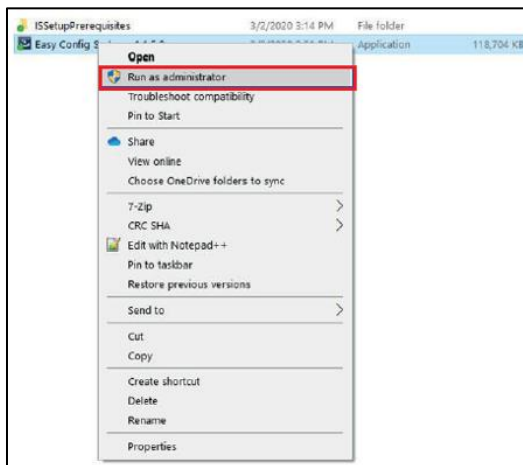
For instructions on configuring your DIRIS DigiBOX M via the DIRIS Digiware D-70 interface refer to Section 9 of the DIRIS Digiware D-50_D-70 Display and Power Supply Interface Installation and Operating Manual

[Diris Digiware D-50_D-70 Display and Power Supply Interface Installation and Operating Manual](#)

5.3 Installing Easy Config System

Easy Config System is a free software used for configuring Socomec Power metering devices from a computer.

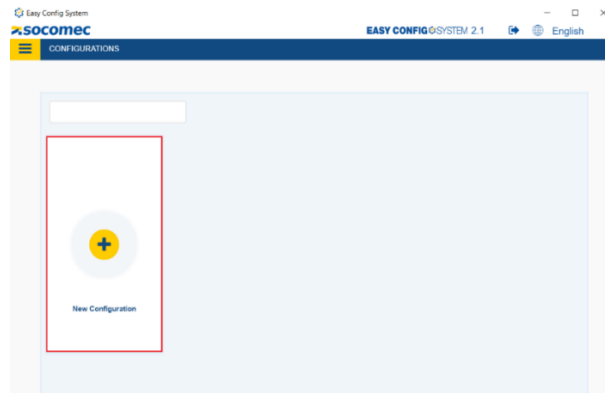
1. Download Easy Config System from the following link:
https://www.socomec.com/easy-config-system_en.html
2. Once the Easy Config System folder is saved on your computer, right click on the setup file and **Run as administrator**.



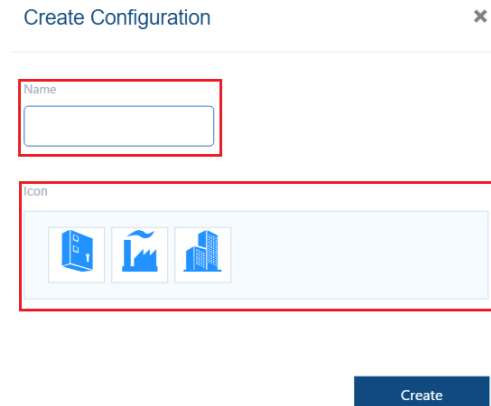
3. Open **Easy Config System** to configure your DIRIS DigiBOX M.
4. When logging in, choose the Admin profile and complete the verification using the information below. Each profile provides a different level of access.

Profile	Default Password	Capabilities
User	No Password	• Visualization • Basic Configuration
Admin	Admin	• Visualization • Full Configuration • Save System • Open System • Save Template • Upload Template • Template Management Password Modification

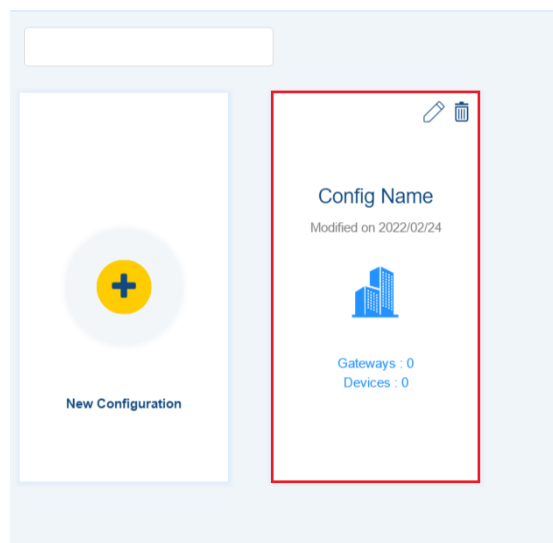
5. Create a new configuration by selecting **New Configuration**.



6. In the pop up window name your configuration and choose an icon.



7. Select the recently created configuration from the list.



8. Plug the micro USB cable to the slot on the back of the DIRIS Digiware D-70. Plug the USB end of the cable to the computer.

 *The DIRIS Digiware D-70 display should be configured first.*

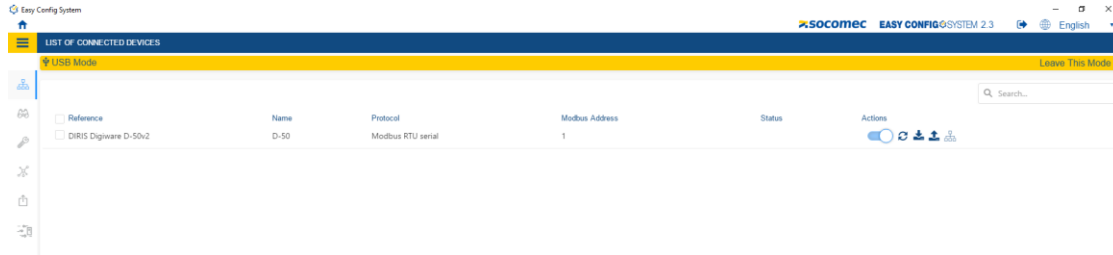
9. Click on the **Device List** icon



10. Navigate to and select **USB mode** on the top right corner to connect to the D-70 display and access configuration menus.



The D-70 display will be automatically be detected by **Easy Config System** (shown in the image below). If not, try disconnecting and reconnecting the cable and again clicking on **USB Mode**.



Note: DIRIS Digiware D-50 Used in Example

5.4 Configuration of the DIRIS DigiBOX M PRO using Easy Config System

5.4.1 Configuring the DIRIS Digiware D-70 display

1. Navigate to and select **Device Configuration**.



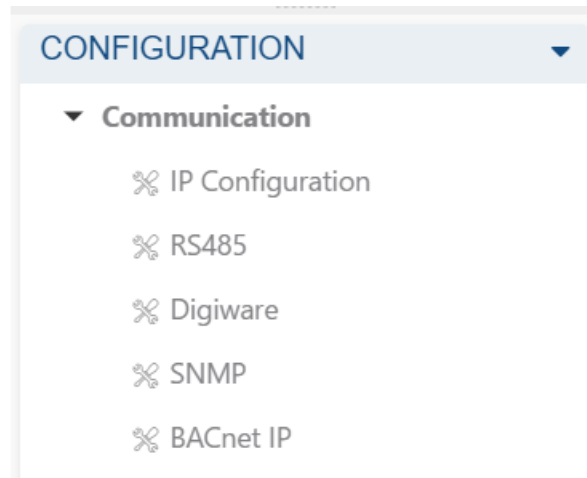
Display Settings

2. The **Display Settings** section in the **General** tab on the bottom left side of the screen contains information about the D-70 display (language, backlight settings etc.)

Once you have entered your parameters, click on **Program** at the top right side of the screen and this will immediately update the DIRIS Digiware D-70. When you click on **Program**, it flashes the parameters **of the tab that you are currently working on** to the device.

Communication

3. The **Communication** section will show the different communication parameters (IP Address, MODBUS Address, Baud rate, etc.).



The IP address and the Modbus address will give you the capability to connect and communicate with the product. The RS485 port can be configured as a master or a slave under the **RS485** section.

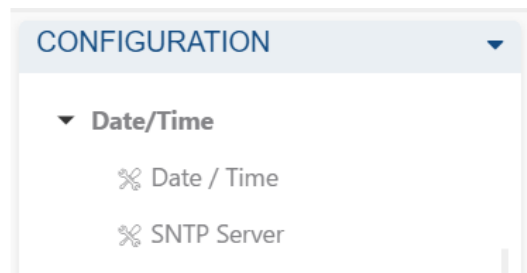


Each Device on the Digiware Bus has its own MODBUS/JBUS ID. This unique ID is a number between 1 and 247. The default JBUS/MODBUS address of devices is as follows:

- *DIRIS Digiware D-50/D-70 displays and M-50/M-70 gateways: ID 001*
- *U-30 Modules: ID 006*
- *I-35 Modules: ID 005*

Date/Time

8. Next, click on the **Date/Time** section. You can synchronize the date/time of the DigiBOX M to the Date/time of your computer manually, or set up an SNTP server for an automatic time synchronization to an SNTP server. Ask your IT department for SNTP server credentials.



Consumption Curves

9. Set the desired integration period for **Consumption Curves**. Consumption Curves can be visualized on the embedded webserver WEBVIEW-M. They allow a breakdown of energy consumption per load, usage or location.
10. Continue to go through each menu, and configure the D-70 as needed for your application.

11. Click on the **Real Time Visualization** icon on the left side bar.

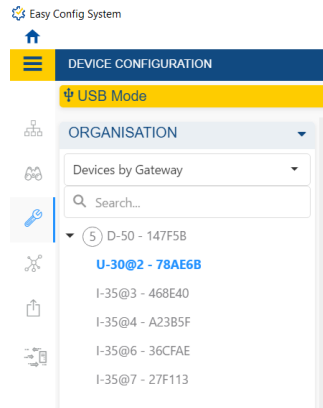


12. Navigate to and click on **Auto-discovery** in the middle of the screen. The Auto discovery will scan and detect all Digiware modules on the Digiware bus (and other Socomec meters such as DIRIS B, DIRIS A-40 connected via RS485).

Bus	Type	Name	ID	Modbus Address	T1	Version	Date/Time	Com. Status	Actions
Digiware	DIRIS Digiware U-30	U-30@2	78AE6B	2		1.11.5	01/12/2022 08:24:03	Good	⌵
Digiware	DIRIS Digiware I-35	I-35@3	468E40	3		1.11.3	01/12/2022 08:24:03	Good	⌵
Digiware	DIRIS Digiware I-35	I-35@4	A2385F	4		1.5.1	01/12/2022 08:24:03	Good	⌵
Digiware	DIRIS Digiware I-35	I-35@6	36CFAE	6		1.11.3	01/12/2022 08:24:03	Good	⌵
Digiware	DIRIS Digiware I-35	I-35@7	27F113	7		1.5.1	01/12/2022 08:24:02	Good	⌵

After a few minutes, the product list will be displayed. If this is the first time you configure the modules, a Modbus ID will be automatically assigned to each DIRIS Digiware U/I module. You can change the Modbus ID by clicking on **Edit Modbus Addresses**.

Once the Auto-discovery is done, all downstream Digiware modules will appear in the “Organization” section under the D-70:



You can now configure the slave modules (U-30 and I-35 modules) without disconnecting the USB cables from the D-70.

5.4.2 Configuring the DIRIS Digiware U-30 module

The DIRIS Digiware U-30 module should be configured before the DIRIS Digiware I-35 modules.

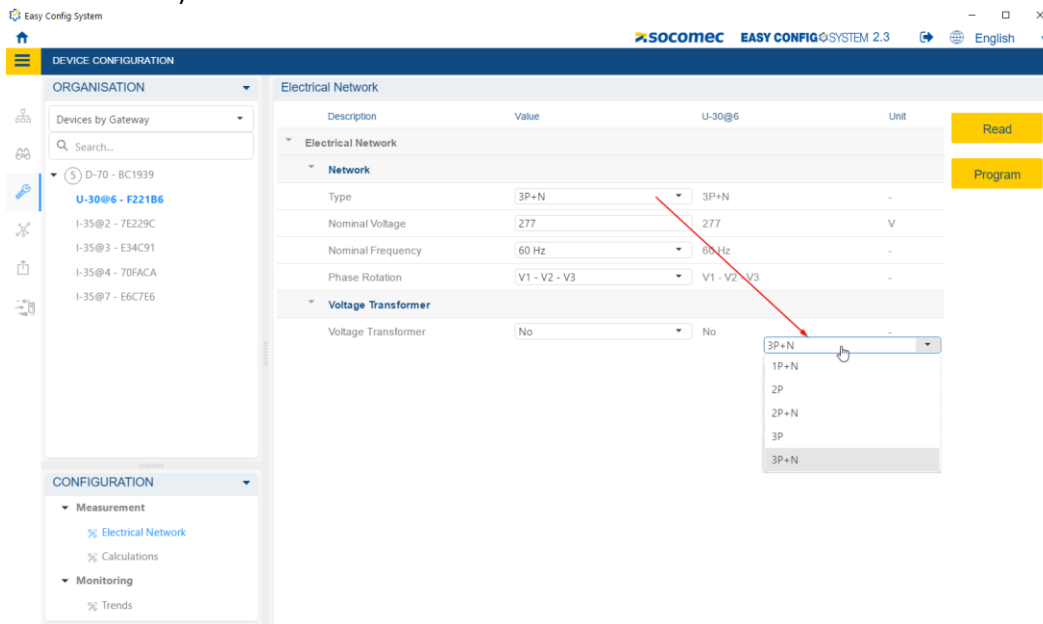
1. Navigate to and select **Device Configuration**.



2. In the “Organization” section on the left side of the screen, select the U-30 module

Measurement

3. **Electrical Network:** select the network **Type** being measured based on where the voltage is measured by the U-30 module as well as the nominal voltage and nominal frequency (60 Hz in North America)



- The **Calculation** section under the **Measurement** tab is where you can set the integration periods for instantaneous and average values of the different electrical parameters.

Notes:

*The integration period of average values and Load curves configured in the U-30 module determines the reading interval of **Trends** and **Load curves** for all Digiware I-35 modules.*

*Trends and Load curves are displayed on WEBVIEW-M, the webserver embedded to the DigiBOX M PRO. Refer to the “**Trends**” menu to choose electrical parameters you wish to record for Trends curves on WEBVIEW-M.*

It is recommended to set the integration period of Load curves at 15 min (default value), so it matches most utility meter reading intervals.

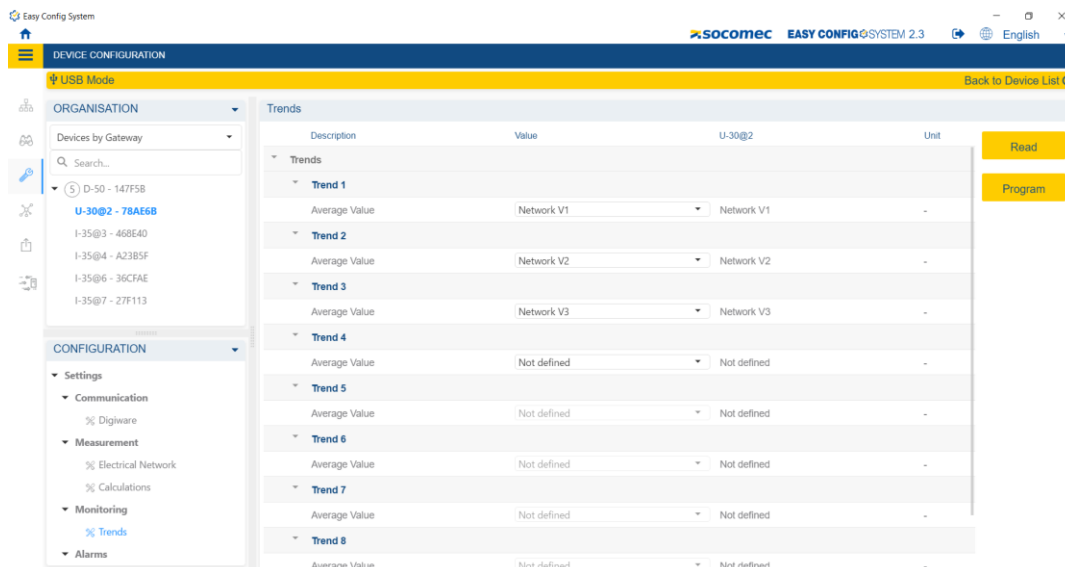
The screenshot shows the 'Easy Config System' interface for a 'U-30@2 - 78AE6B' device. The left sidebar contains a tree view with 'ORGANISATION' and 'CONFIGURATION' sections. The 'CONFIGURATION' section is expanded, showing 'Settings', 'Communication', 'Measurement', 'Monitoring', and 'Alarms'. The 'Measurement' section is further expanded, showing 'Electrical Network', 'Calculations', 'Trends', and 'Alarms'. The 'Calculations' section is selected, displaying a table of settings for 'U-30@2'.

Description	Value	Unit
Integration Periods		
Integration Period - Inst. Values	5	x0.2 s
Integration Period - Avg Values	15 Minutes	-
Integration Period - Load Curves	15 Minutes	-
Load Curves Synch. Source	Internal Clock	-
THD		
THD Type	THD (Fundamental)	-
THD Method	Total	-
Other		
Calculation method for Q/S/Er/Ea/PF	Vector	-
PF Convention	IEC	-

Buttons for 'Read' and 'Program' are visible on the right side of the table.

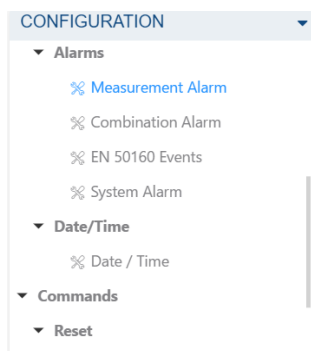
Monitoring

5. In the **Trends** section under the **Monitoring** tab you can select the parameters that you want to record over time. These parameters are called Trends and their evolution over time can be visualized on WEBVIEW-M.



Alarms

6. The **Alarms** tab allows you to set up alarms:
 - Measurement alarms are based on custom measurement thresholds
 - EN 50160 Events are based on power quality events (voltage sags, swells, interruptions)
 - System alarms are based on commissioning errors



7. The **Reset** tab allows you to do a reset on specific memory categories of the device. You can also restore the device to its default factory settings.

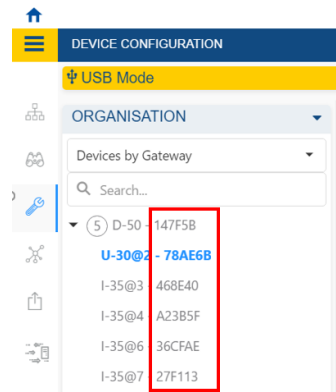
The configuration of your DIRIS Digiware U-30 module is now complete!

5.4.3 Configuring the DIRIS Digiware I-35 modules

Remain in the **Device Configuration** tab and select the I-35 meter module you wish to configure.

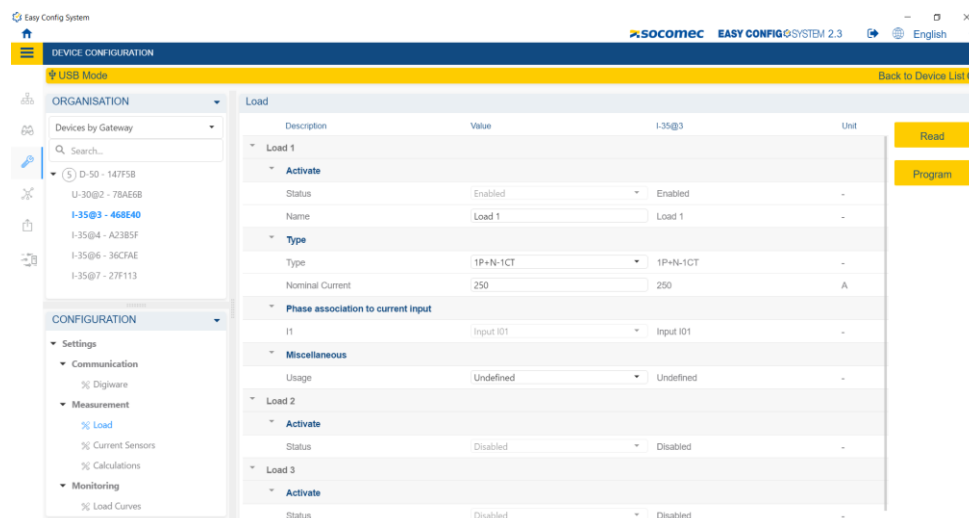


To assist you identifying which module you are configuring, refer the 6-character ID which is the same as the one marked on the front face of each module:



Measurement

- 1. Load:** This section allows you to configure the different load(s) monitored by the I-35 meter module. You must configure the number of loads, and for each load:
 - The load name (this name will be synchronized on the D-70 display and WEBVIEW-M webserver)
 - The load type (single-phase, three-phase etc.)
 - The nominal current (this can be the protective device rating for example)



Note: Supported load types: $1P+N - 1CT$, $2P - 1CT$, $2P+N - 2CT$, $3P - 3CT / 3P - 2CT / 3P - 1CT$, $3P+N - 3CT / 3P+N - 1CT$

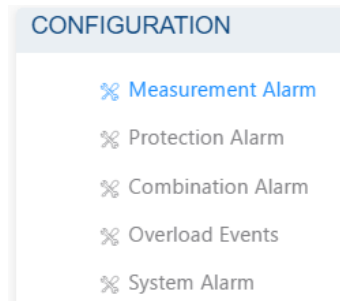
2. The **Current Sensors** menu allows you to configure the current sensors connected to the I-35 meter module.
The rating of current sensors is automatically detected thanks to the RJ12 technology.
For each current sensor, you can change:
 - Its orientation: Positive = P1 → P2 on TE/TR/iTR current sensors and in the same direction as arrow for TF current sensors
 - Its phase voltage association. This is particularly useful if a wiring mistake has been made during installation

Monitoring

3. The **Trends** menu allows you to select parameters you wish to record for Trends curves on WEBVIEW-M.

Alarms

8. The **Alarms** tab allows you to set up alarms:
 - Measurement alarms are based on custom measurement thresholds
 - System alarms are based on commissioning errors (CT disconnected, inconsistent CT rating etc.)



Reset

9. The **Reset** tab allows you to do a reset on specific memory categories of the device. You can also restore the device to its default factory settings.
10. Repeat the process in paragraph 5.4.3 for other remaining I-35 meter modules within the DigiBOX M.

Once all modules are configured, the system is ready to read correct values and to communicate through Modbus to an external EMS/BMS.

11. You can use the **Real Time visualization** tab to visualize live measurements and phasor diagrams. You will be able to verify that the readings are consistent and approve that there is no wiring error.



6. Using the webserver (WEBVIEW-M)

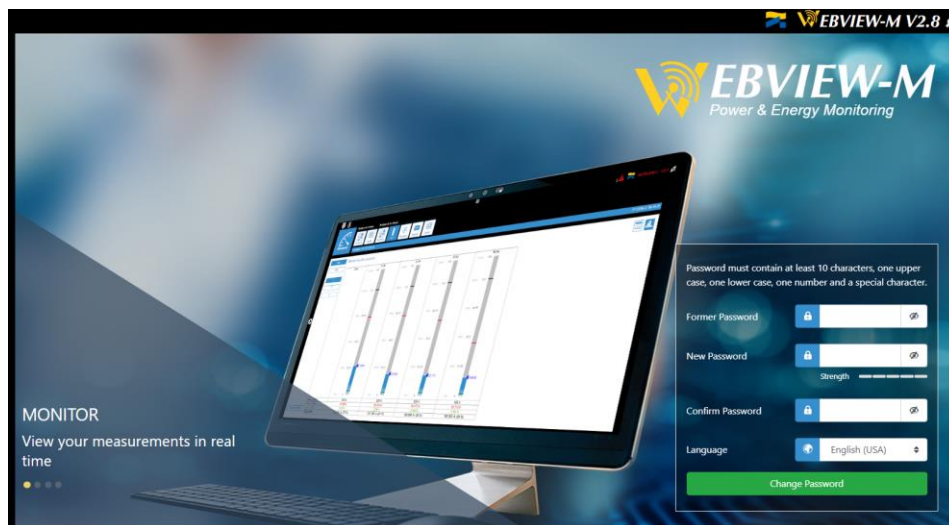
In this portion of the guide, we will set up the visualization of the measurements from the D70's webserver, WEBVIEW-M.

6.1 Setting up Digiware modules in WEBVIEW-M

1. To access the webserver, connect to the DIRIS Digiware D-70 with an Ethernet cable to a router or PC in the same network.
2. In any Web Browser, type the IP address of the D-70 to access the Webserver. The Default IP configuration is shown below.

IP Configuration	
IP Address	192.168.0.4
Subnet Mask	255.255.255.0
Gateway	192.168.0.1

3. Log in as Administrator with the default password "Admin".
For cyber security reasons the application ask you to change the default password. Your password must be changed at least once a year to access the setup menu of the webserver.





It is also recommended to change default passwords of Cyber Security and Advanced User profiles in addition to the Admin profile. Until default passwords for all 3 profiles have been changed, the Password Alert alarm will remain active and **the ALARM LED on the D-70 will be flashing.**

The Password Alert alarm can also be disabled from Easy Config System.

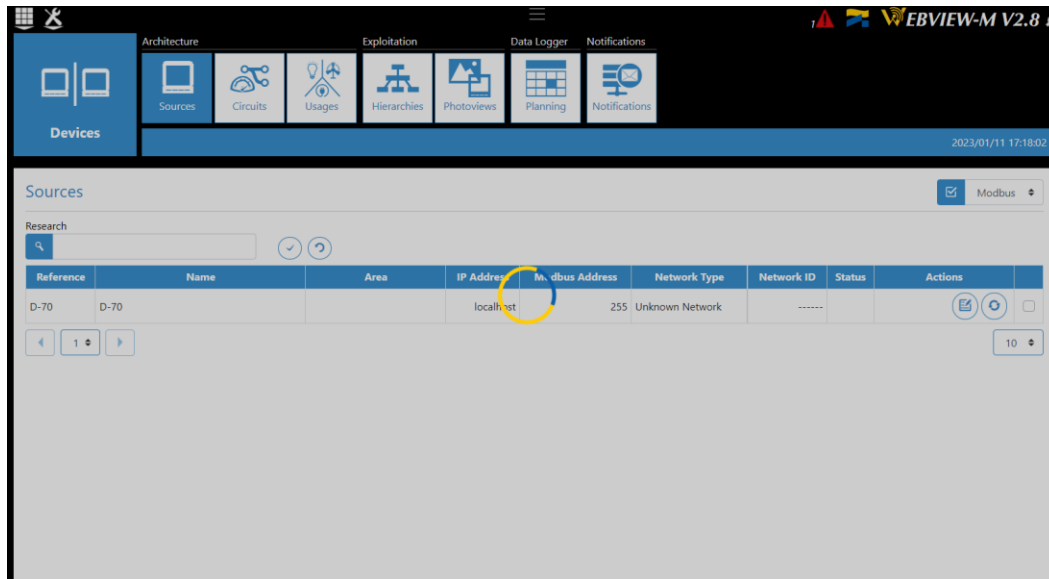
Once connected as Admin, click on the toolbox icon in the top left corner of the screen



4. Then Click on the **“Devices”** tab on the top left hand of the screen



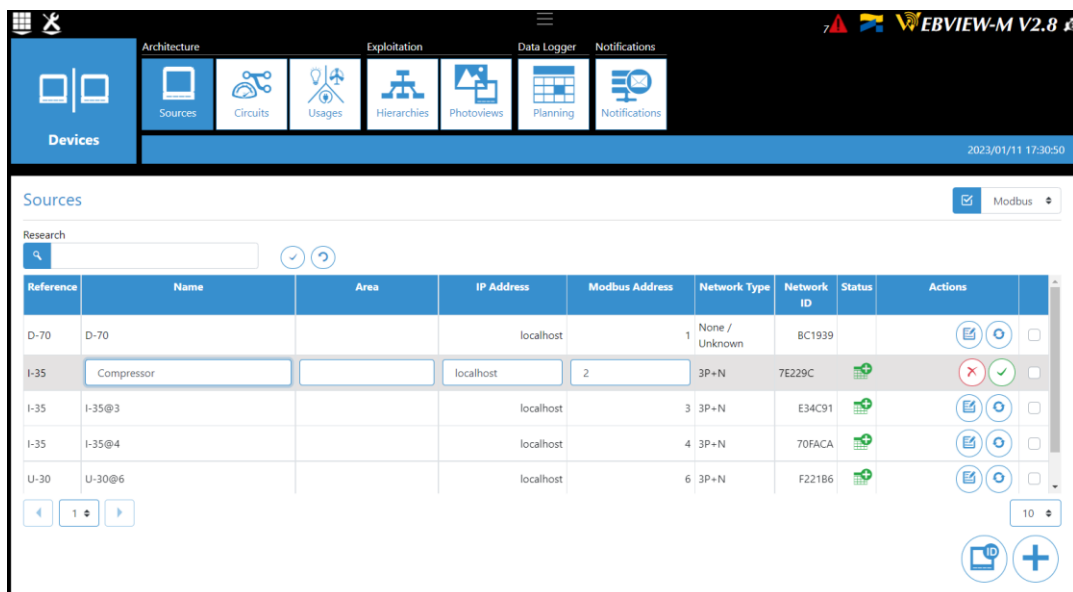
- The first time you connect to the webserver, it will automatically load the slave modules connected to the D-70 into the webserver:



If new devices are added to the D-70, they will need to be added to WEBVIEW-M by clicking on the “Scan” button at the bottom right corner. They can also be added manually by clicking on the “+” button.



- Once all modules have been added to WEBVIEW-M, you can change the module’s names, and their area from the “Sources” tab. To do so, click on “Edit” button under the “Actions” column.



- From the **“Circuits”** tab, you can rename the Load names (they have already been changed in Easy Config System), and select an energy usage (heating, lighting etc.) associated to each load. Selecting energy usages is useful when creating Hierarchies to understand which usage consumes the most energy.

WEBVIEW-M is now set up. You can go back to home screen menu by clicking on



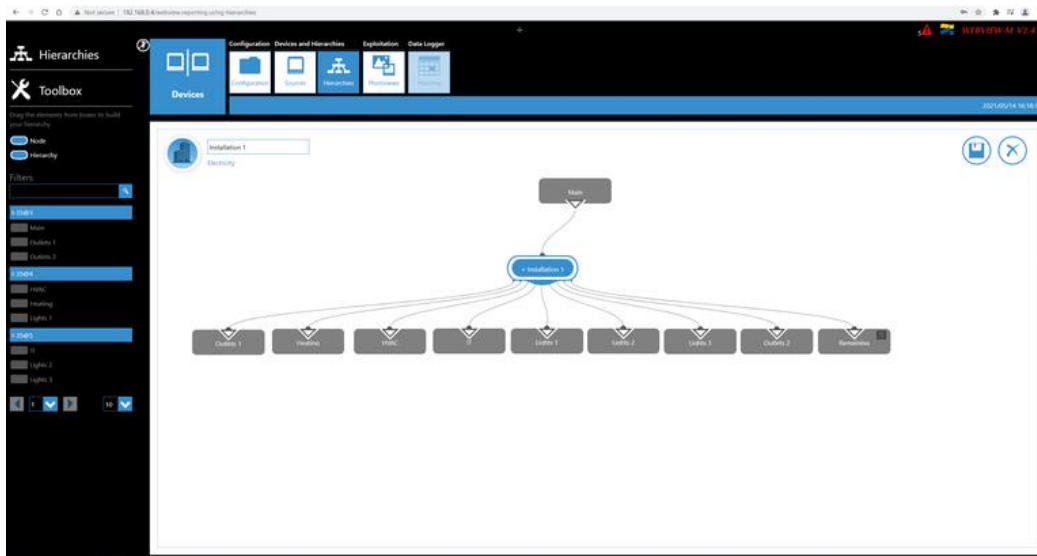
The **“Monitor”** menu allows you to visualize real time measurements, the **“Trends”** menu allows you to visualize historical measurements, and **“Consumption”** menu shows consumption curves.

6.2 Configuring Hierarchies

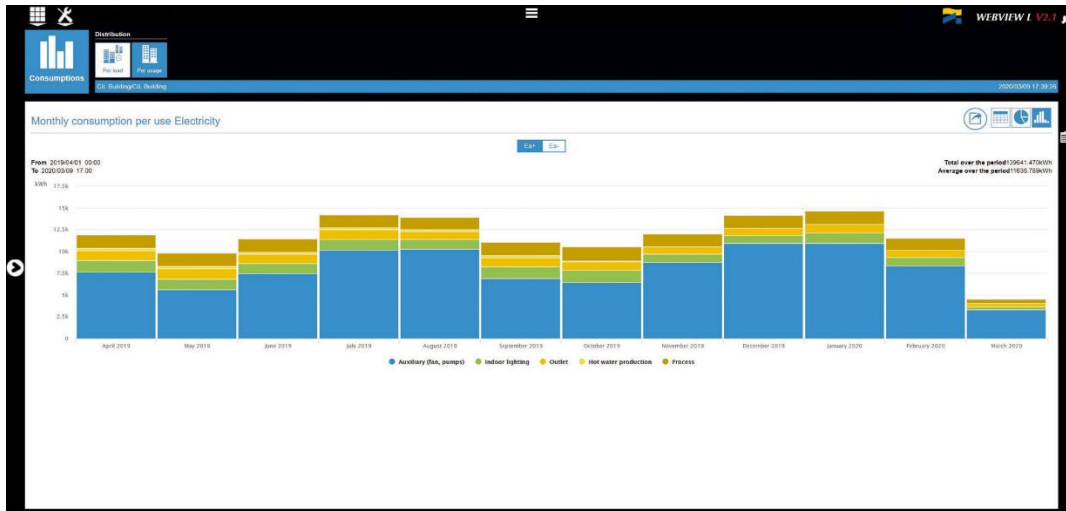
The Hierarchies organize the metering points in the form of a tree structure, giving you a functional view of the loads.

The hierarchy generally represents a geographical organization (Site → Buildings → Areas), so you can show energy breakdown by area.

- Click on the **“Hierarchy”** tab and then select **“Add a Hierarchy”**. Choose a name and a fluid the select the check mark to validate.
- Drag and drop the loads on the center of the screen, create a link between the loads to create the desired relationship



- Once finished, save the Hierarchy by clicking the save symbol next to the “X” on the right hand side of the screen. Once the hierarchy has been created, the breakdown of consumption per load and per usage can be viewed in the “Consumptions” menu accessible from WEBVIEW-M’s home screen:



6.3 Configuring Photoview

Photoview allows you to display electrical measurements directly on a chosen background picture. The picture can be a map, a panel, an electrical diagram, etc. It shows an overview of all your metering points and their electrical measurements.

- Click on the “Photoviews” tab:

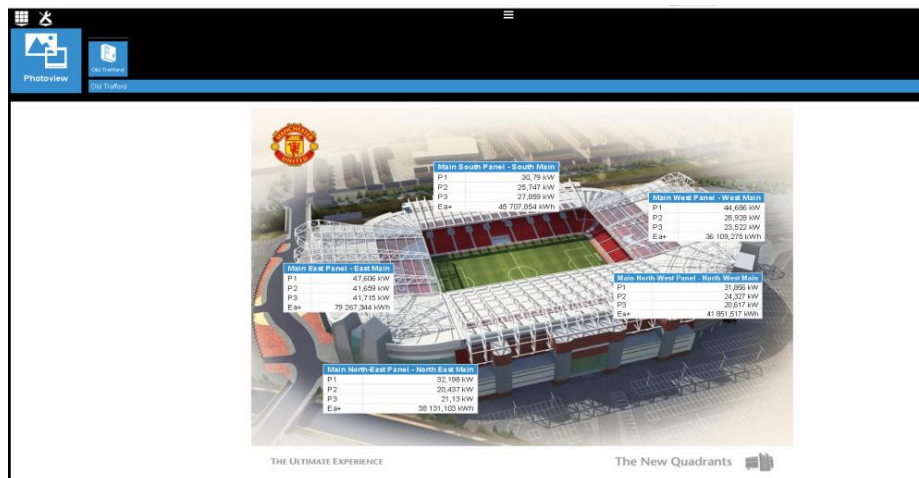


- Next click on “Add a new Photo view”.
- Give it a name and choose an icon. Then select the picture you would like to use. Select the checkmark to validate
- The picture will now appear on the screen. On the picture, you can drag and drop devices, text and measurements. You can also add a link to create a connection to another Photoview.

5. For example, click and hold on “Measure” and drag it onto the picture. A selection window will open with the list of available devices, loads associated to the devices and data available for each load.
6. Select a device and select the different measurements you want displayed on your Photoview.
7. Once the measurements have been selected, they will be directly displayed on the picture. They can be moved anywhere on the picture.
8. Double click on the measurement table to go back to the list of devices, loads and measurements.
9. Once your Photoview is fully configured, click on the save icon on the right side of the screen.
10. Go back to WEBVIEW-M’s homepage; a **“Photoview”** menu is now available.



11. Click on **“Photoview”**. The values are displayed in real time on the picture previously chosen.





Congratulations! Your configuration is now complete.

If you need any assistance, please email our support team at tech.us@socomec.com.
For all other inquiries, contact info.us@socomec.com.

For more information on our other products and solutions, visit our website at www.socomec.us

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