

The background of the page is a light gray color. It features two large, abstract, wavy patterns made of many thin, parallel lines. One pattern starts from the left edge and curves upwards and then downwards towards the center. The other pattern starts from the top right edge and curves downwards and then upwards towards the center. These patterns create a sense of movement and depth.

Installation


Electrical installation & network connection

AMX 4

AIRMASTER

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Revision	Date	Description
01	2024-02-08	First edition.
02	2024-08-30	Section 4.2 updated.
02.1	2026-01-21	New design on the back page.
03	2026-05-08	Section 4 has been updated with new data and a new section. Section 5 has been updated with additional information on analog inputs, a new wiring diagram, and a standard configuration table. Information on external CO ₂ - and external motion sensors has been added. Furthermore, Airlinq® Axio and Airlinq® Nova control panels have been added to section 5. Minor rewrite of section 6. Sections 7 and 8 have been added to the manual.

NOTICE	
	<p>Read the manual thoroughly before installing the AMX 4 unit.</p> <p>Keep it for later use. Manuals must be given to the unit owner for safekeeping.</p>

Fill out this form for future reference:

Installation information	
Type	AMX 4
Delivery date	
Serial number	
Mounting location	

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1 Introduction

This manual provides instructions for installing the AMX 4 unit correctly and safely.

Mounting and installing an AMX 4 is divided into two parts:

1. Electrical installation and network connection (this manual).
2. Mounting the unit on the wall/ceiling. Please refer to the Mounting manual.

Both manuals are part of the delivery. The manuals can also be downloaded from our website, see section 3.3.





1.1 Target group

This manual is addressed to qualified personnel.


1.2 Warning Symbols


This manual may contain warning symbols. The colors and symbols adhere to the ISO 3864 and ISO 7010 standards. The visual depiction may vary depending on the type of media.


The symbols are described below:

	<p style="text-align: center;">DANGER</p> <p>Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.</p>
	<p style="text-align: center;">WARNING</p> <p>Flammable material.</p>
	<p style="text-align: center;">WARNING</p> <p>Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.</p>
	<p style="text-align: center;">CAUTION</p> <p>Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.</p>

Continued on the next page

	CAUTION
	Wear safety footwear as personal protection equipment.

	NOTICE
	Failure to comply with the instructions can damage the device and/or its environment.

	NOTICE
	Information, tips, and recommendations.

1.3 Liability








The manufacturer cannot be held liable for damages arising from use in violation of this manual's instructions.

The manufacturer reserves the right to make changes without notice. All stated values are nominal and may be affected by local conditions.


The warranty is voided if this manual is not followed.

2 Safety Instructions

Breaching the instructions marked with a warning symbol carries a risk of personal injury or material damage.

	<p style="text-align: center;">WARNING</p> <p>R290 (Propane) in the appliance - Highly Flammable Substance.</p> <p>Extremely flammable gas. Forms explosive mixtures with air. Only slightly soluble in water. Gas is heavier than air.</p>
	<p style="text-align: center;">WARNING</p> <p>The electrical installation of the AMX 4 may only be carried out by an authorized electrician or by Airmaster A/S.</p>
	<p style="text-align: center;">WARNING</p> <p>The power supply must be switched off for all connections or service work.</p> <p>Make sure nobody turns the power on (prevent use).</p>
	<p style="text-align: center;">WARNING</p> <p>Do not open the service covers before disconnecting the unit's power supply.</p>
	<p style="text-align: center;">CAUTION</p> <p>Do not start the unit before all service covers and grates on duct connections are fully installed.</p>
	<p style="text-align: center;">CAUTION</p> <p>Wear safety shoes for personal protection.</p>
	<p style="text-align: center;">NOTICE</p> <p>The unit must not operate without filters.</p>

2.1 Responsibility

	CAUTION
	<ul style="list-style-type: none">• The installer is responsible for installing the unit following local rules and standards.

2.1.1 Personnel requirements

The mounting and installation of the unit must be done by qualified personnel. Laypersons should not attempt to mount and install the AMX 4 unit.

3 Product identification

3.1 Product name and type

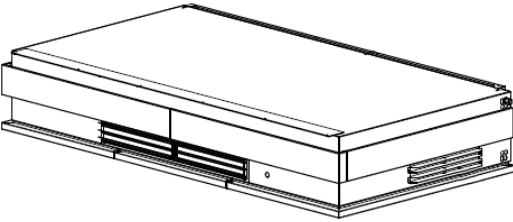
Product name	AMX 4
Unit item number	9500004001
Type	Decentral air handling unit. Stand-alone unit.
 <p>Figure 1: AMX 4 unit</p>	

Table 1: Product name and type

3.2 Specifications

Supply voltage	220-240V/50Hz, ~1N+PE
Maximum power (including heat pump)	2666 W
Maximum current (including heat pump)	11.7 A
Power factor	0.99
Maximum fuse	16 A, 1 phase, type C
Leakage current AC / DC	6 mA / 0.04 mA
Recommended residual current circuit breaker (RCCB)	Type B

Table 2: AMX 4 specifications

Please refer to the AMX 4 datasheet for further information. The datasheet is available on our website.

3.2.1 Heating surfaces

The AMX 4 unit has two electric heating surfaces.

The heating surfaces are protected against overheating by thermal circuit breakers; each surface has two. The thermal circuit breakers disconnect the heating surfaces in the event of overheating.


The thermal circuit breakers are installed in the heating surface.

3.3 Manufacturer

Airmaster A/S
Industrivej 59
9600 Aars
Denmark

Phone: +45 98 62 48 22
E-mail: info@airmaster.dk
Website: www.airmaster.dk

4 Electrical installation

WARNING	
	<ul style="list-style-type: none">• Pay strict attention to section 2 before performing any electrical installation!• Electrical equipment must be connected according to the wiring diagrams.

The AMX 4 unit does not have a control box like the 'AM' units from Airmaster. The AMX 4 has up to five PCB boards that control the unit.

- ECM: external connection module (optional)
- CM: control module
- HPM: heat pump module
- IOM: IO module
- PM: power module

Only the optional ECM module may be used during installation; the other boards are for internal use only. The ECM module has five analog inputs available:

- J1-4 (AI1)
- J1-5 (AI2)
- J1-6 (AI3)
- J1-10 (AI4)
- J1-11 (AI5)

Electrical connections are located on the right-hand side of the AMX, see Figure 2 below. The connections are hidden behind the side cover.

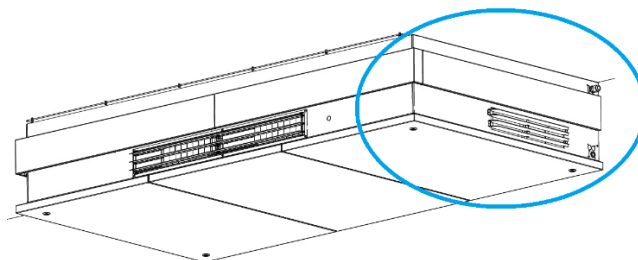


Figure 2: Connections on the AMX 4

To access them, you need to open the right-hand service cover and the right-hand bottom steel plate, see Figure 5 below.

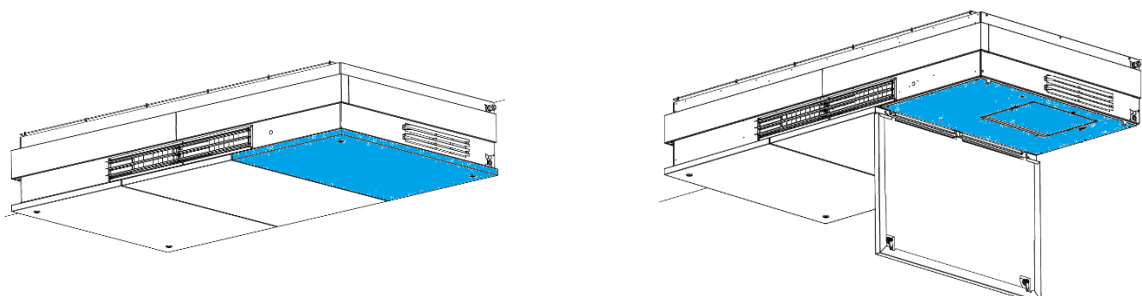


Figure 3: Open service cover and steel plate

Both the service cover and the steel plate are designed to hang from the unit without falling. Take care not to bump into them when they are hanging down.

Once this is done, carefully remove the panel on the side cover and the panel on the right-hand side of the front, see Figure 4. Please note that the panels are optional and may not be included in the delivery.

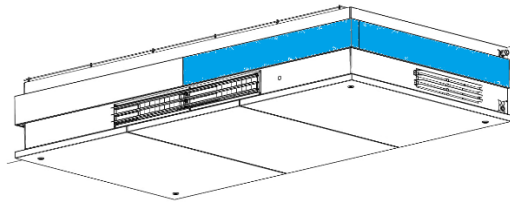


Figure 4: Remove the panels

Place the panels on a protective surface to avoid scratching them.

Finally, remove the side plate, see Figure 5.

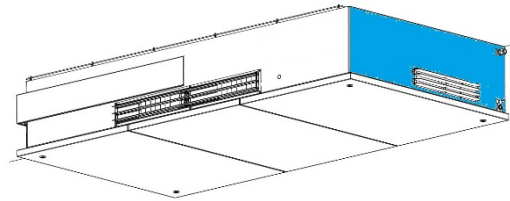



Figure 5: Remove the side plate

Please refer to the AMX 4 Mounting manual for more detailed information. Once all the connections are established, reverse the steps above to close off the unit.

4.1 Supply voltage

CAUTION	
	<ul style="list-style-type: none">• Depending on the unit's power consumption and the existing electrical system, it may be necessary to set up at least one new power circuit.• A pre-fuse and safety switch disconnecter must be fitted as part of the unit's permanent installation. The pre-fuse and safety switch are not part of Airmaster's delivery.• The permitted leakage current per unit must be considered if more than one unit is installed.• The supply cable must be dimensioned correctly. The conditions at the installation site must be taken into account.• The installer is responsible for making sure that all cables used for the installation are adjusted to the correct length/fit.• Any optional items, sensors, and switches must be fitted before the supply voltage is connected.

The supply cable lead-in is located in the upper right-hand corner, see Figure 6 below.

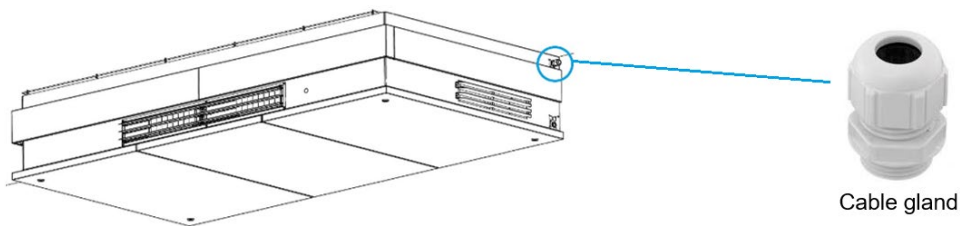


Figure 6: Supply cable lead-in and cable gland

Figure 7 below is a picture of an AMX 4 unit with the side plate removed. The supply cable must be connected to the terminal block located at the bottom, see Figure 8.



Figure 7: AMX 4 with side plate removed

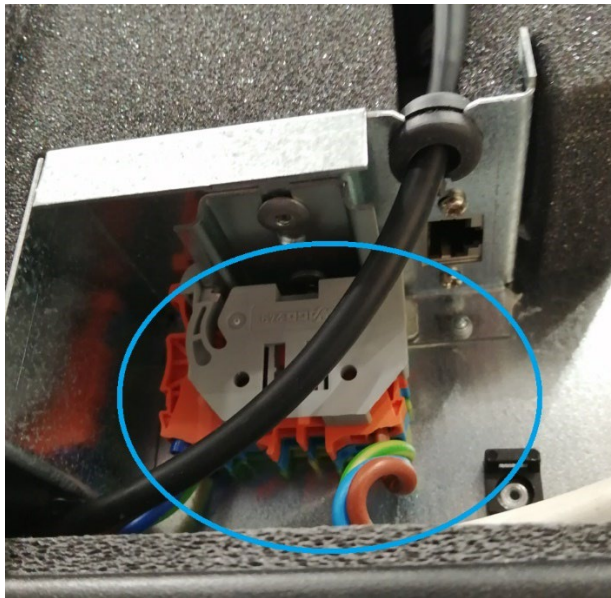


Figure 8: Supply terminal block

Use a cable tie to attach the cable to the cable tie mount, see Figure 9. This prevents the cable from hanging loose inside the unit.

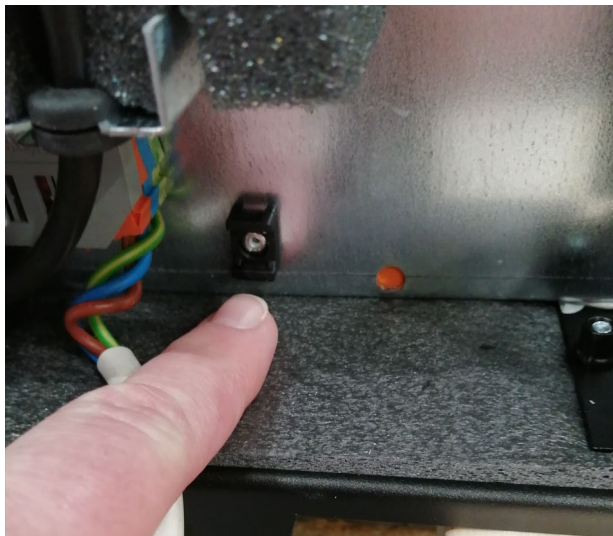


Figure 9: Cable tie mount

4.2 Wiring diagram

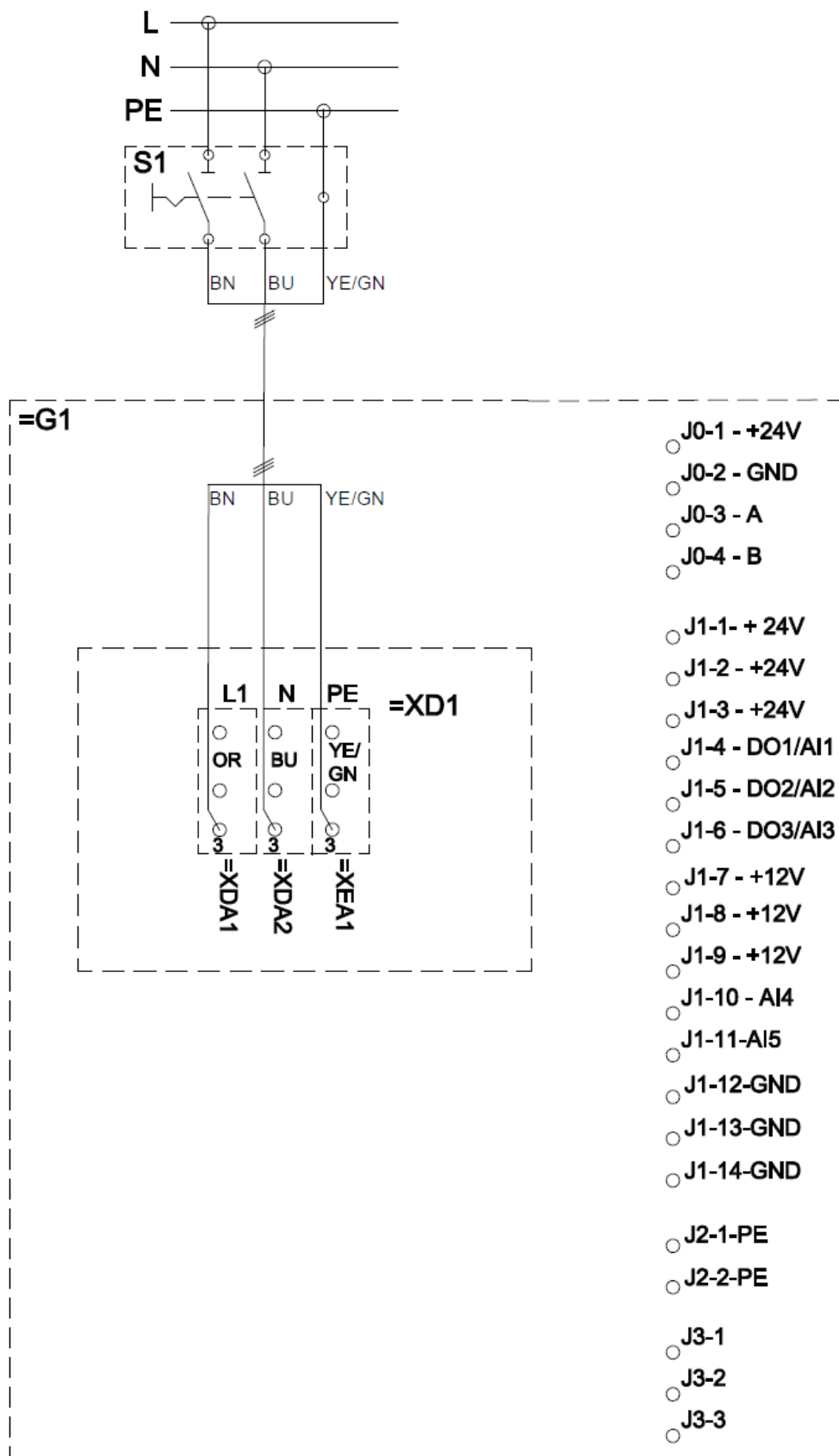


Figure 10: Wiring diagram

=G1	Air handling unit
=XD1	Terminal clamps, power supply
=XDA	Phase + neutral terminal
=XEA	Protective earth terminal
S1	Supply separator (not supplied by Airmaster)

J0	Connector, control panel
J0-1 - +24V	24 V (DC) output
J0-2 - GND	GND
J0-3 - A	A+
J0-4 - B	B-
J1	Connector, I/O
J1-1 - +24V	24 V (DC) output
J1-2 - +24V	<i>n.a.</i>
J1-3 - +24V	<i>n.a.</i>
J1-4 - DO1/AI1	CO ₂ sensor input (input 0-10 V (DC))
J1-5 - DO2/AI2	Motion sensor input (input 0-10 V (DC))
J1-6 - DO2/AI3	<i>n.a.</i>
J1-7 - +12V	12 V (DC) output
J1-8 - +12V	12 V (DC) output
J1-9 - +12V	<i>n.a.</i>
J1-10 - AI4	External start
J1-11 - AI5	<i>n.a.</i>
J1-12 - GND	GND CO ₂ sensor
J1-13 - GND	GND CO ₂ sensor
J1-14 - GND	GND Motion sensor
J2	<i>n.a.</i>
J2-1 - PE	<i>n.a.</i>
J2-2 - PE	<i>n.a.</i>
J3	<i>n.a.</i>
J3-1	<i>n.a.</i>
J3-2	<i>n.a.</i>
J3-3	<i>n.a.</i>

L1	Phase
L2	Phase
L3	Phase
N	Neutral
PE	Protective Earth

BK	Black
BN	Brown
BU	Blue
GN	Green
OR	Orange
YE	Yellow

Table 3: Standard configuration

4.3 Cabel routing

The cable lead-in is located in the lower right-hand corner, see Figure 11 below.

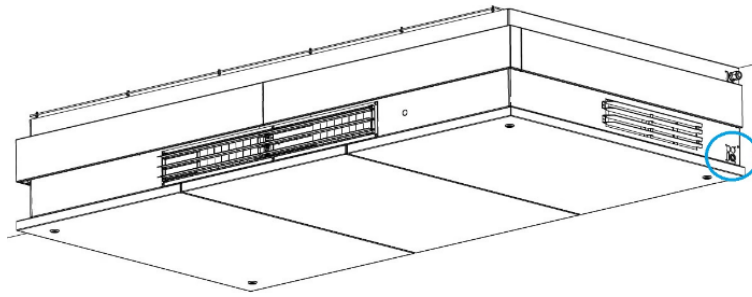


Figure 11: Cable lead-in

Figure 12 below is a picture of an AMX 4 unit with the side plate removed. The ECM module is located to the left, see the blue marking.



Figure 12: AMX 4 with side plate removed

You can pass cables to the ECM module through the passage at the bottom of the unit, see Figure 13.



Terminal side



ECM module side

Figure 13: Cable passage

4.4 External start

The ECM module in the AMX 4 unit enables the connection of an external start contact, e.g., a circuit breaker. The unit is supplied with a low-voltage signal via the external contact. If the contact closes, the unit will start. If the signal is disrupted, the unit will stop.

4.4.1 Wiring diagram for External Start

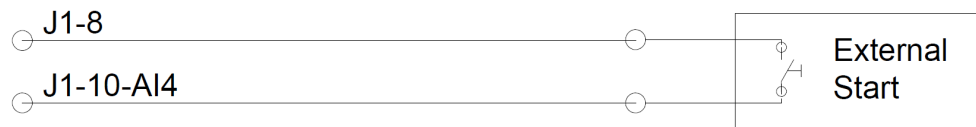


Figure 14: External start wiring diagram

Connect the 12 V (DC) signal from terminal J1-8 to terminal J1-10-AI4 via the external start contact.

Input AI4 must be set to "External Start" in 'Local Web Tool' or Airlinq® Online.

4.4.2 Settings

You need to set the port configuration and the priority for the external start signal; this is done in either Local Web Tool or Airlinq® Online. Please refer to section 6 on page 25.

4.5 External CO₂ sensor

The AMX 4 unit can be started and controlled by an external CO₂ sensor.

4.5.1 Positioning of the CO₂ sensor

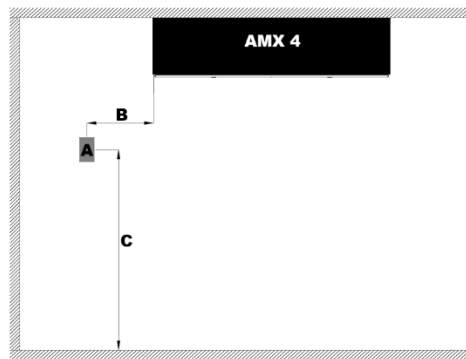


Figure 15: CO₂ sensor positioning

- A CO₂ sensor
- B Ca. 1 meter
- C Ca. 2 meters

Table 4: Minimum distances

4.5.2 Wiring diagram for external CO₂ sensor

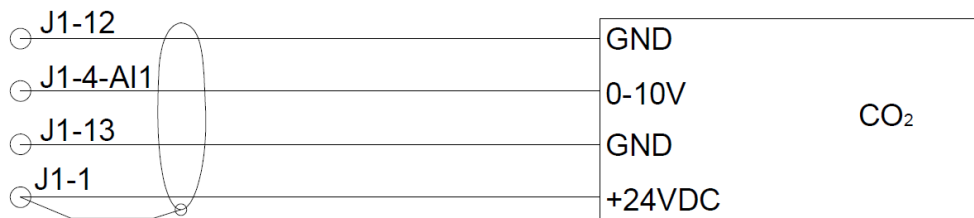


Figure 16: External CO₂ sensor wiring diagram

Connect the 24 V (DC) signal from terminal J1-1 to +24 V (DC) on the CO₂ sensor. Connect J1-4-AI1 to 0-10V (DC) on the CO₂ sensor. Connect J1-12 and J1-13 to GND on the CO₂ sensor.

Input AI1 must be set to “CO₂ Sensor” in ‘Local Web Tool’ or Airlinq® Online.

4.5.3 Settings

You need to set the port configuration and the priority for the external CO₂ sensor signal; this is done in either Local Web Tool or Airlinq® Online. Please refer to section 6 on page 25.

4.5.4 Calibration

A CO₂ sensor calibrates itself during the first three weeks in operation. During this period, the AMX unit should preferably remain operational without power outages.

In the beginning, the measurements may deviate from the actual CO₂ level.

4.6 External motion sensor

The AMX 4 unit can be started and controlled by an external motion sensor.

4.6.1 Positioning of the motion sensor

Mount the motion sensor in a position where it can monitor the environment, preferably high up in a corner, overlooking the entire room.

4.6.2 Wiring diagram for external motion sensor



Figure 17: External motion sensor wiring diagram

Connect the 12 V (DC) signal from terminal J1-7 to +12 V (DC) and Alarm on the motion sensor. Connect J1-5-AI2 to Alarm on the motion sensor. Connect J1-14 to GND on the motion sensor.

Input AI2 must be set to "Motion sensor" in 'Local Web Tool' or Airlinq® Online.

4.6.3 Settings

You need to set the port configuration and the priority for the external motion sensor signal; this is done in either Local Web Tool or Airlinq® Online. Please refer to section 6 on page 25.

4.7 Control panel, Airlinq® Axio


The Airlinq® Axio control panel is optional and may not be included in the delivery.



Figure 18: Airlinq® Axio panel

Mount the control panel at a suitable height on the wall, usually in the same room as the AMX 4 unit. It may, however, be placed in an adjacent room.

Please refer to the mounting instructions included with the panel.

NOTICE	
	Leave at least 50 mm to the nearest obstacle when mounting the panel.

4.7.1 Wiring diagram for Airlinq® Axio

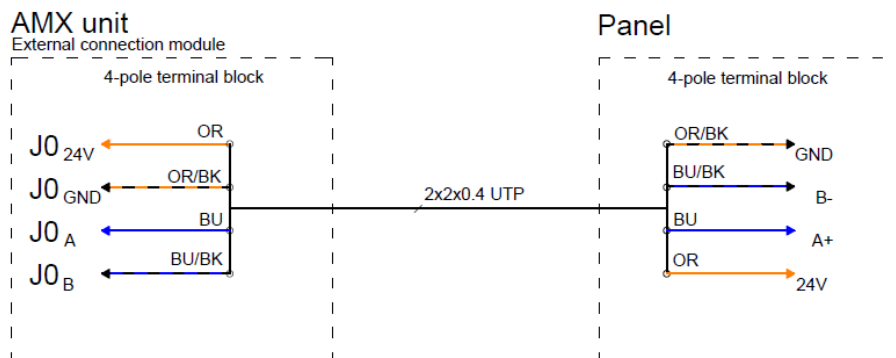


Figure 19: Airlinq® Axio panel wiring diagram

Connect the 24 V (DC) signal from terminal J0-1 to 24V on the panel (orange wire).

Connect J0-2 to GND on the panel (orange/black wire).

Connect J0-3 to A+ on the panel (blue wire). Connect J0-4 to B- on the panel (blue/black wire).

4.8 Control panel, Airlinq® Nova

The Airlinq® Nova control panel is optional and may not be included in the delivery.

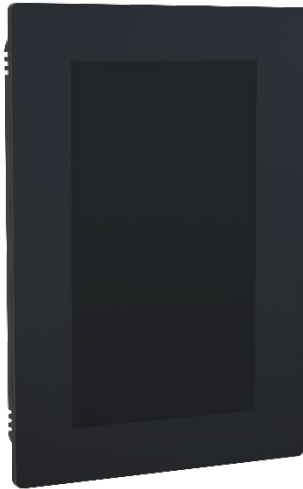



Figure 20: Airlinq® Nova panel

Mount the control panel at a suitable height on the wall, usually in the same room as the AMX 4 unit. It may, however, be placed in an adjacent room.

Please refer to the mounting instructions included with the panel.

	NOTICE
Leave at least 50 mm to the nearest obstacle when mounting the panel.	

4.8.1 Wiring diagram for Airlinq® Nova

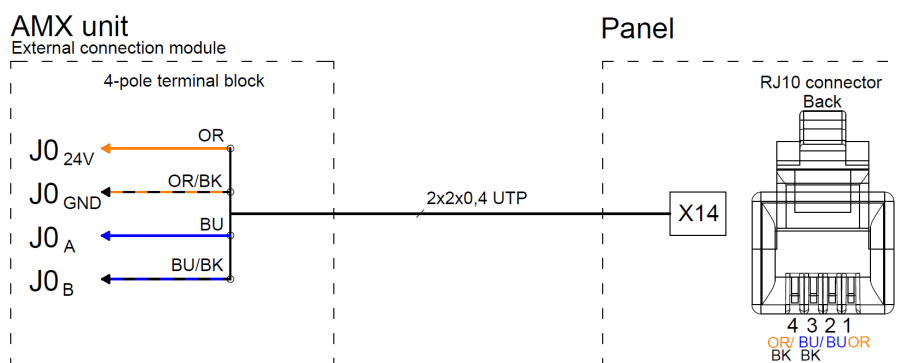


Figure 21: Airlinq® Nova panel wiring diagram

Connect the RJ 10 connector on the cable to the RJ 10 connection on the panel.

Connect the orange wire to the 24 V (DC) signal in terminal J0-1.

Connect the orange/black wire to GND in terminal J0-2.

Connect the blue wire to A+ in terminal J0-3. Connect the blue/black wire to B- in terminal J0-4.

5 Network connection

The AMX 4 unit can connect to the Internet via an Ethernet cable or Wi-Fi. For further information, please refer to the [Airling Online Technical specifications](#) on our website.

5.1 Ethernet cable connection

The Ethernet cable lead-in is located in the lower right-hand corner, see Figure 22 below.

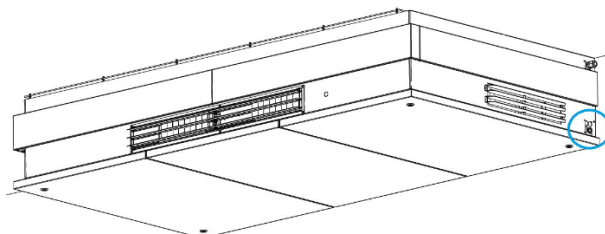


Figure 22: Ethernet cable lead-in

The RJ45 connection is located next to the supply terminal block, see Figure 23 below.

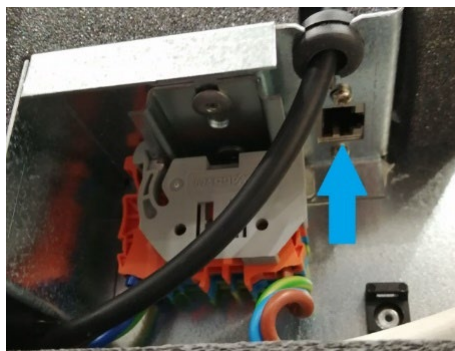


Figure 23: Ethernet connection, RJ45

5.1.1 Cable recommendation

We recommend using a CAT 5e STP (Shielded Twisted Pair) data cable with an RJ45 connector. The maximum recommended cable length is 70 meters.

5.1.2 Identification

Each network module has a unique MAC address upon delivery.

The MAC address always starts with the digits shown below; the 'x' is the unique number for the network module.

Ethernet MAC

38:1F:26:4x:xx:xx

The MAC address is printed on a label next to the RJ45 connector. You can also find a label on the PCB behind the ECM module, see Figure 24 below.

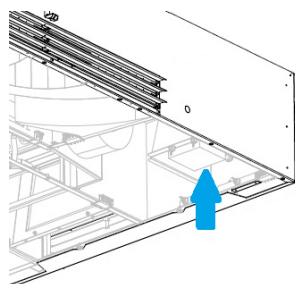


Figure 24: MAC address label on PCB

The Ethernet cable connection should be connected to a switch or hub to access the internet. Once this is done, you can communicate with the unit via Local Web Tool or Airlinq[®] Online.

5.2 Wi-Fi connection

Connecting via Wi-Fi requires a PC and on-site presence.

You need to log in using a 'Technical' or 'Advanced' user profile. The password can be obtained from Airmaster Technical Support; see section 3.3 for contact information.

Do the following:

1. Turn the AMX 4 unit's power off. Wait 10 seconds.
2. Turn the unit's power on.
3. On your PC, search for available Wi-Fi networks. The unit will be listed as AM-xxxxxxx, where x is the serial number.
4. Connect to the unit. The password is: fresh_air. The Local Web Tool website opens automatically.
5. Log in using the 'Technical' or 'Advanced' user profile and password.
6. Click on "Network" on the left-hand side, then click on "Configure" in the 'Wi-Fi Client' section, see Figure 25 and Figure 26 below.
7. Type in the network SSID and password.

Click "Save".

This completes the setup process.

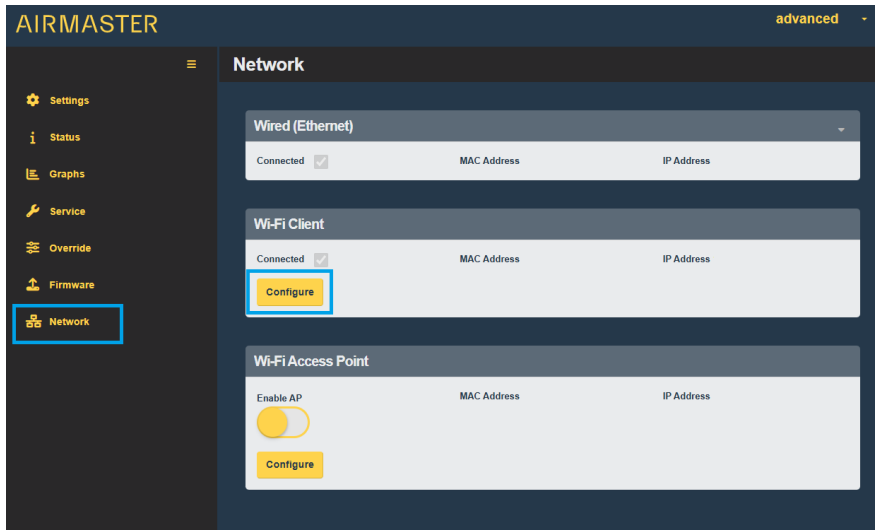


Figure 25: Network and Configure buttons

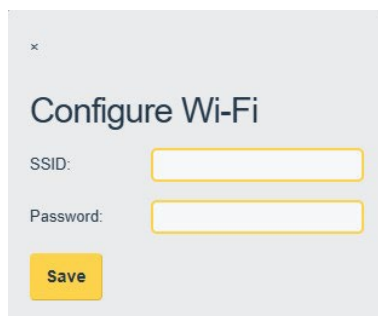


Figure 26: Wi-Fi configuration window

If you wish to confirm that the unit is connected to the Internet, check for MAC and IP address information, which will be displayed in the Network window (i.e. Figure 25).

6 Settings

User profiles and access levels are the same in Local Web Tool and Airlinq® Online. Settings made in Local Web Tool will also be applied in Airlinq® Online, and vice versa.

Prerequisite: You need to log in using a 'Technical' or 'Advanced' user profile.

The password for Local Web Tool can be obtained from Airmaster Technical Support; see section 3.3 for contact information.

6.1 Port configuration

Port configuration must be set for the external start, the external CO₂ sensor, and the external motion sensor. Table 3 on page 15 provides information on the standard configuration:

- Analog Input 1 (AI1) is used for the CO₂ sensor
- Analog Input 2 (AI2) is used for the motion sensor
- Analog Input 4 (AI4) is used for the external start.

6.1.1 Local Web Tool

1. Click on "Settings" in the left-hand menu, then click "External I/O Configuration" in the drop-down list. Next, click on "Analog Inputs" and "Ports", see Figure 27 below:

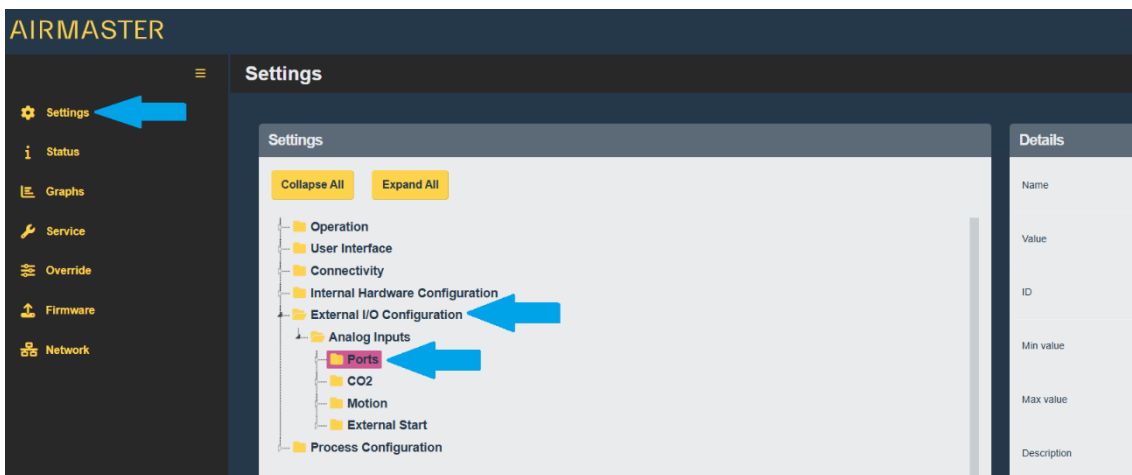


Figure 27: Ports menu

This displays the five Analog Input ports available. You need to configure Analog Input 1, 2, and 4.

2. Click on "Analog Input 1". Click on the field next to "Value". Select "CO₂ sensor": see Figure 28 below:

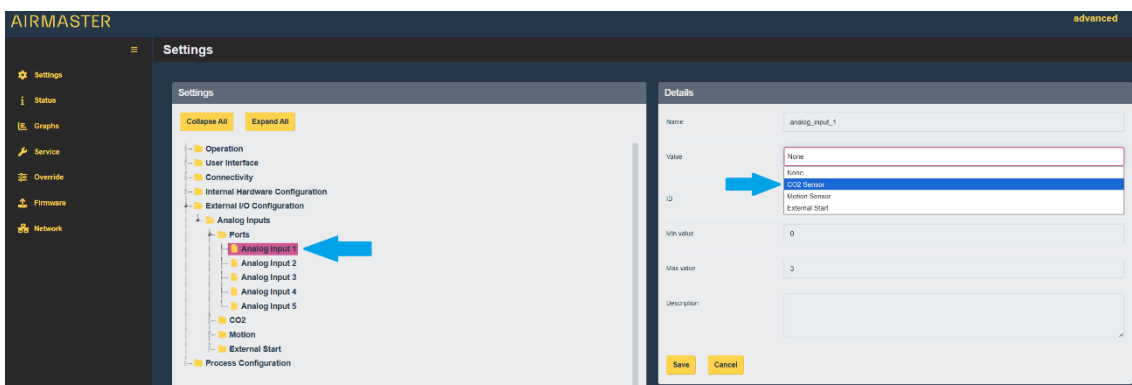


Figure 28: Analog Input configuration

3. Click "Save".

- Likewise, click on "Analog Input 2" and set this to "Motion Sensor", click "Save".
- Click on "Analog Input 4" and set this to "External Start", click " Save".

6.1.2 Airlinq® Online

- Go to the "Settings" tab at the top, then click "External I/O Configuration" in the drop-down menu. Next, click on "Analog Inputs" and "Ports", see Figure 29 below:

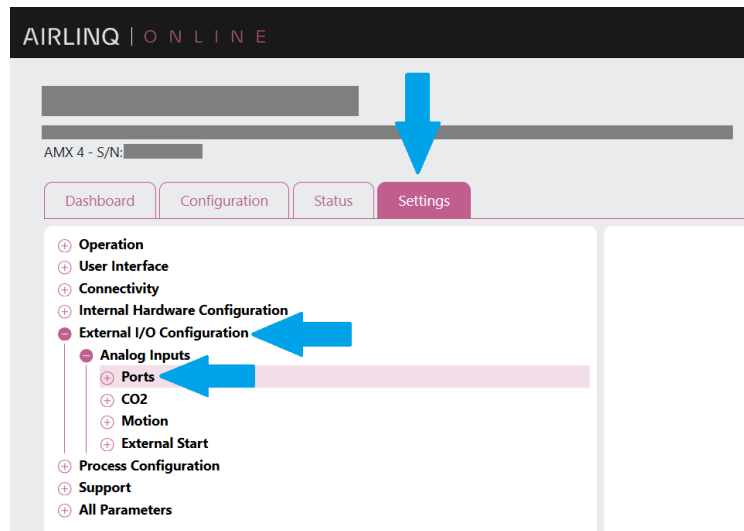


Figure 29: Ports menu

This displays the five Analog Input ports available. You need to configure Analog Input 1, 2, and 4.

- Click on "Analog Input 1". Set the value to "CO2 Sensor" on the right-hand side of the window, see Figure 30 below:

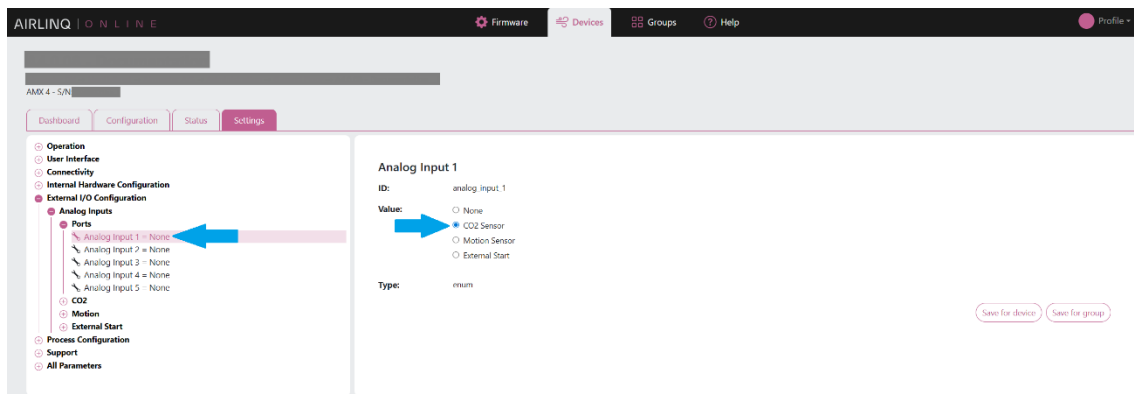


Figure 30: Analog Input configuration

- Click "Save for device".
- Likewise, click on "Analog Input 2" and set this to "Motion Sensor", click "Save for device".
- Click on "Analog Input 4" and set this to "External Start", click " Save for device".

6.2 Start priority

Start priorities must be set for the external start, the external CO₂ sensor, and the external motion sensor.

6.2.1 Local Web Tool

1. Click on “Settings” in the left-hand menu, then click ”Operation” in the drop-down list. Next, click on “Start Priority”, see Figure 31 below:

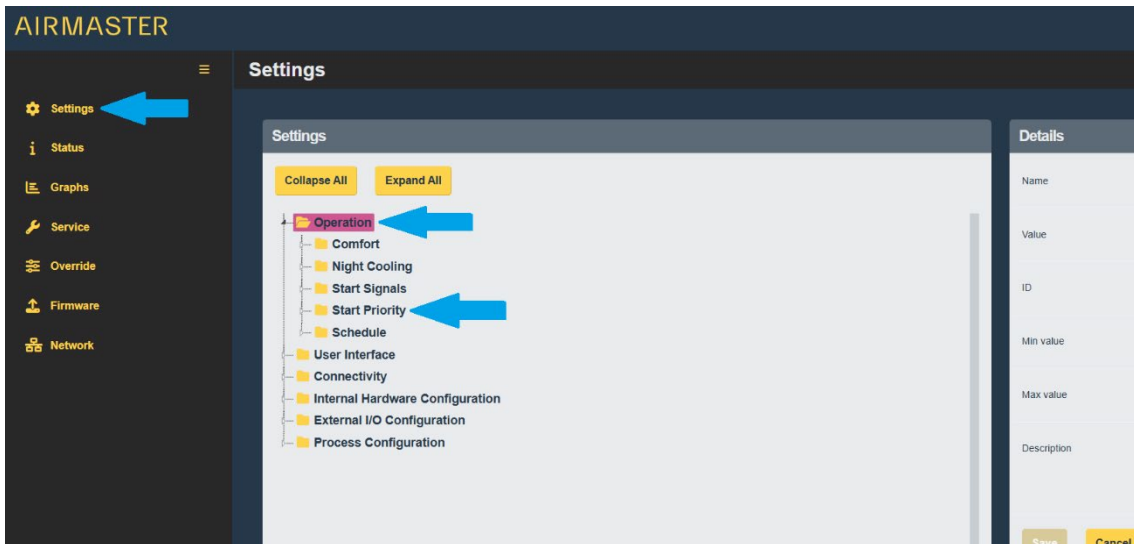


Figure 31: Start Priority menu

2. Click on the priority you wish to configure, see Figure 32 below:

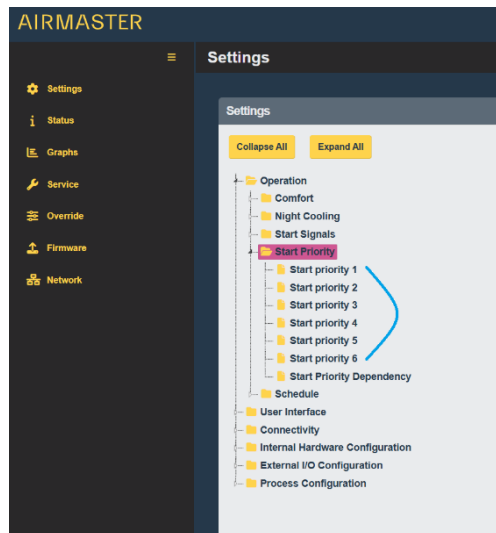


Figure 32: Start Priority sub-menu

Choose one of the options that appear when you click in the field next to “Value”:

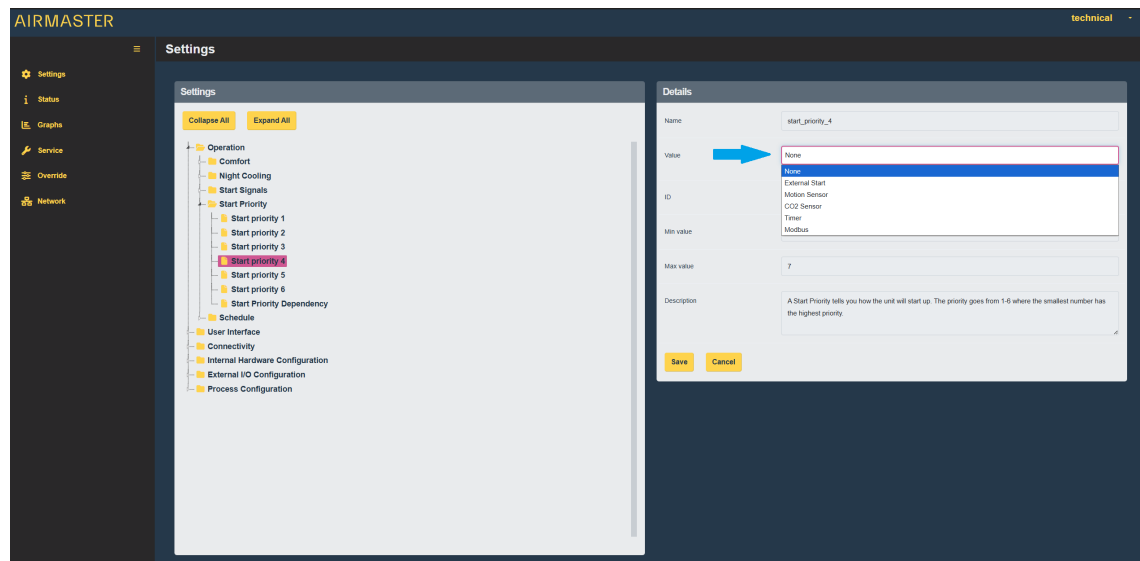


Figure 33: Start Priority example

Figure 33 above depicts an example in which “Priority 4” is opened, and options are shown.

3. Click “Save” when you have chosen the required option.
4. When you have set your priorities, set the “Start Priority Dependency” to either ‘True’ or ‘False’, see Figure 34 below. The default value is set to ‘False’.

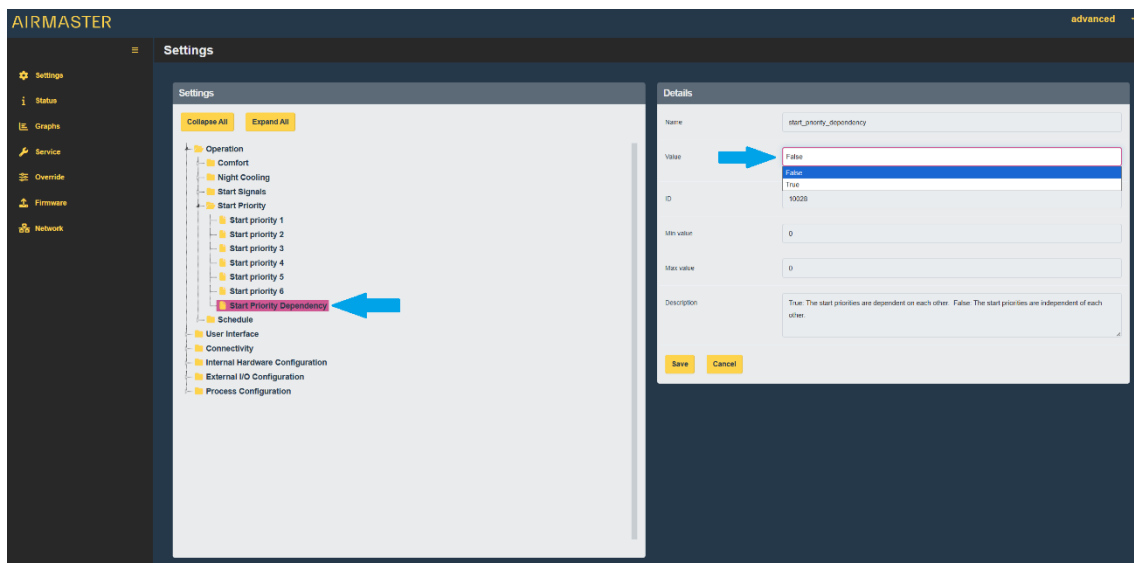


Figure 34: Start Priority Dependency

5. Click “Save”.

6.2.2 Airlinq® Online

1. Go to the “Configuration” tab at the top, then click “Start priorities” in the left-hand menu, see Figure 35 below:

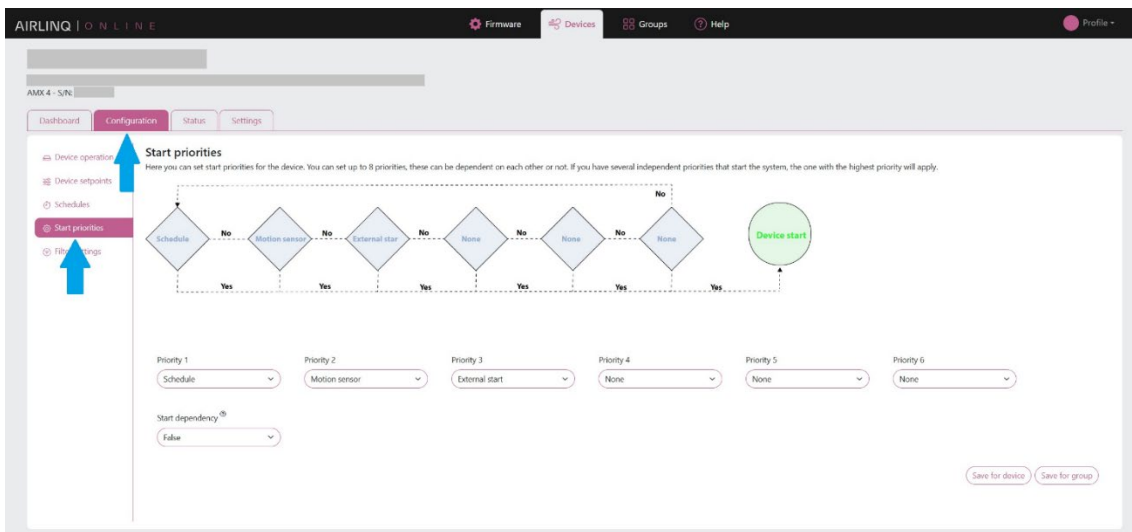


Figure 35: Start priorities menu

2. Next, you configure the priorities according to your requirements. This is done in the area marked with a blue square in Figure 36 below:

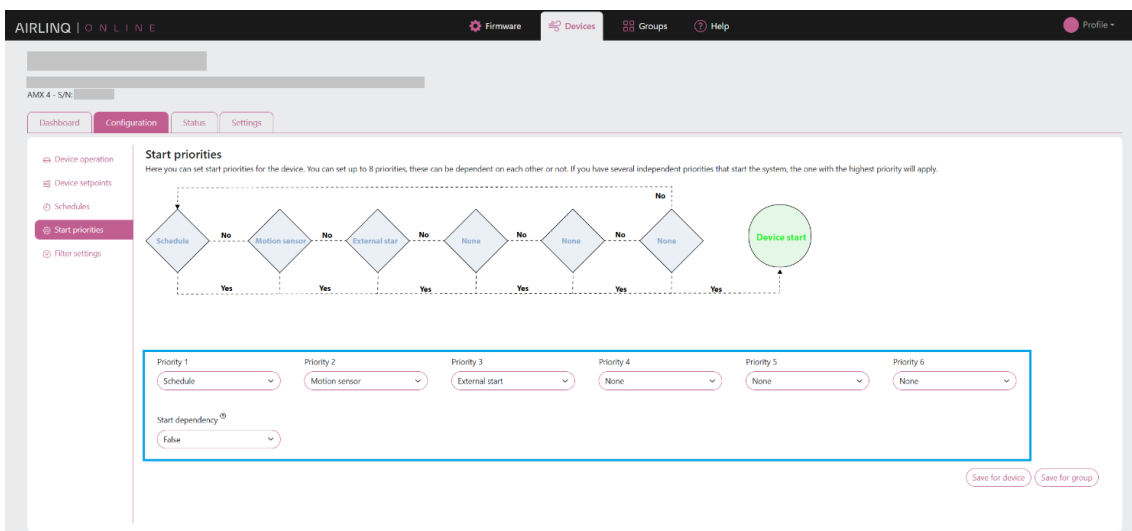


Figure 36: Priority settings

The graphical display above the marked square depicts the priorities you set.

3. Choose a Priority number and set it to match your requirements. Default value is set to 'None'. Figure 37 below depicts an example in which Priority 4 is opened, and options are shown.

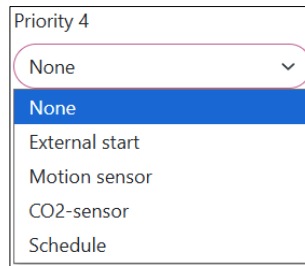


Figure 37: Start Priority example

4. When you have set your priorities, set the "Start dependency" to either 'True' or 'False'. The default value is set to 'False'. Click the question mark icon for further information.

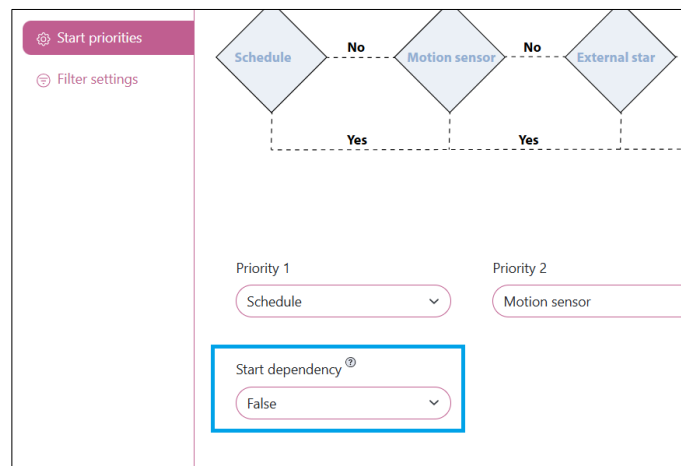


Figure 38: Start dependency

5. Once you have set your priorities and dependency, click "Save for device" in the lower right-hand corner.

7 Commissioning

Before you start the AMX 4 unit, all electrical connections must be made. This includes the connection between the unit and the control panel, as well as any external sensors or equipment.

7.1 Panel

The panel is delivered as a plug-and-play solution; it is preinstalled in the AMX 4 units control system.

The Airlinq® Nova panel is preset for portrait-mode mounting. If the panel is mounted in landscape mode, you need to change the settings to support this, see section 7.1.1 for Local Web Tool, respectively, section 7.1.2 for Airlinq® Online.

1. Start the AMX 4 unit. The unit will perform the boot process. Please refer to the Operation & Maintenance manual for information on LED status.
2. The panel will automatically start booting when the unit is ready. This can be seen on the panel display.
3. When the panel has booted, it is ready for use. The panel's main screen will be displayed.

If the panel wiring is not connected correctly before startup, a warning will be displayed in Local Web Tool or Airlinq® Online. To reset this warning, you must correct the wiring and reboot the AMX 4 unit.

Any warnings will be displayed in Local Web Tools' main "Status" window, see Figure 39.

In Airlinq® Online, the warning will be displayed in the Device log on the right-hand side of the "Dashboard" tab, see Figure 40.

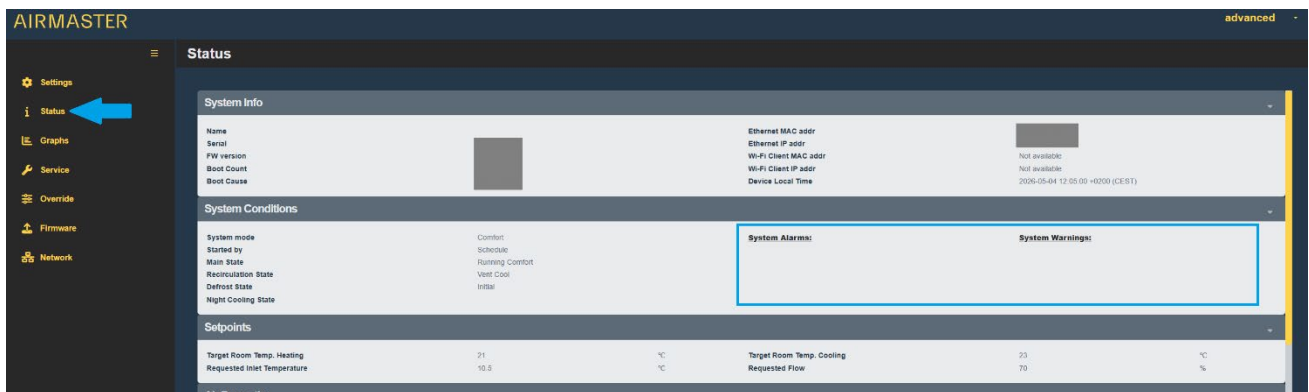


Figure 39: Local Web Tool alarms and warnings

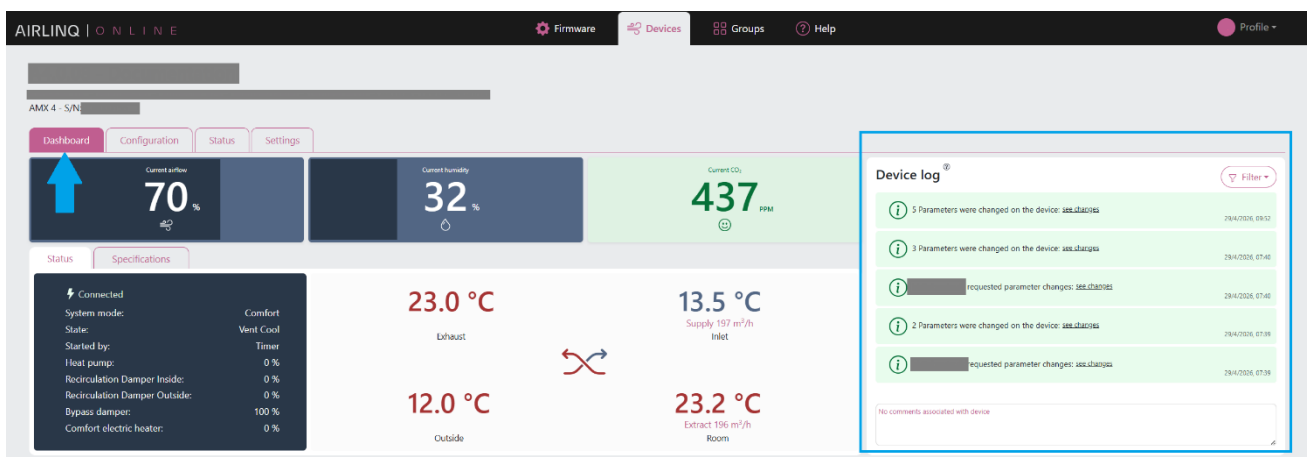


Figure 40: Airlinq® Online Device log

7.1.1 Local Web Tool settings for landscape mounting of the Nova panel

1. Click on “Settings” in the left-hand menu, then click ”Internal Hardware Configuration” in the drop-down list. Next, click on “User Interface”, see Figure 41 below.

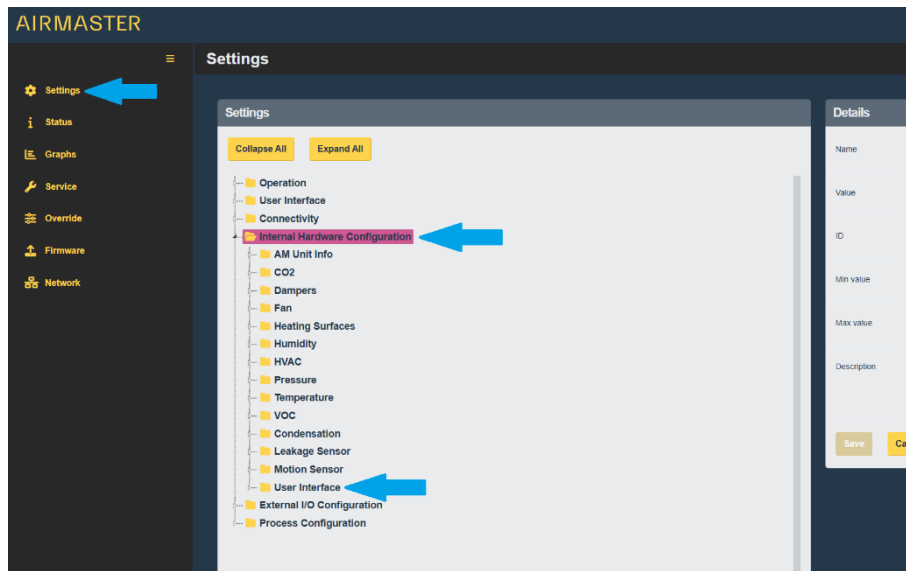


Figure 41: User Interface sub-menu

2. Click on the “Control Panel Orientation” sub-menu, see Figure 42 below. Next, click on the field next to “Value” and choose “Landscape”.

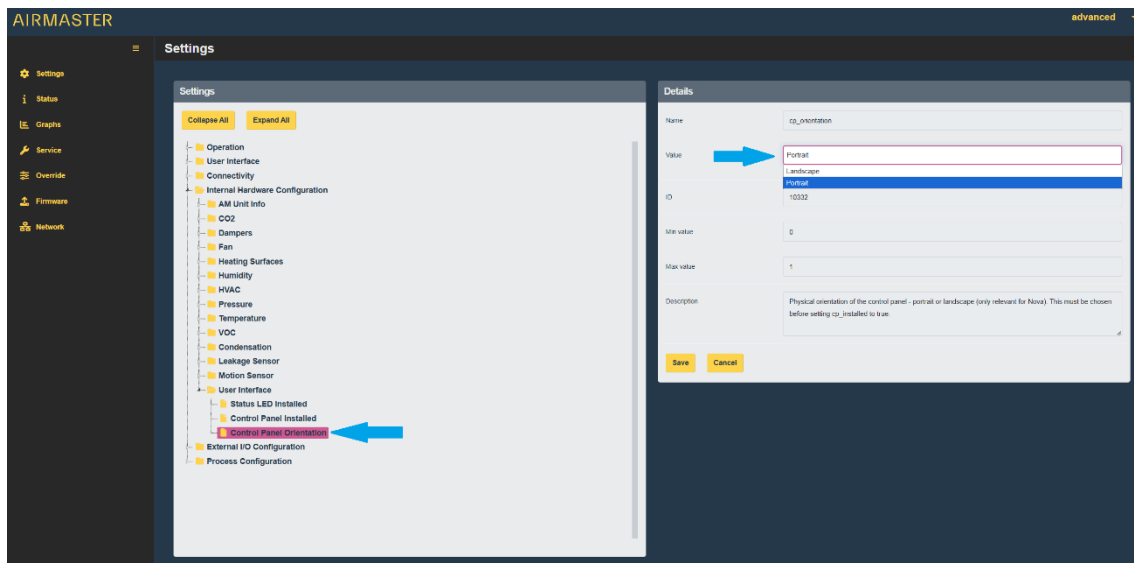


Figure 42: Control Panel Orientation sub-menu

3. Click “Save”.
4. Reboot the unit.
After reboot, the panel is ready for use in landscape mode.

7.1.2 Airlinq® Online settings for landscape mounting of the Nova panel

1. Go to the “Settings” tab at the top, then click “Internal Hardware Configuration” in the left-hand menu. Next, click on “User Interface”, see Figure 43 below.

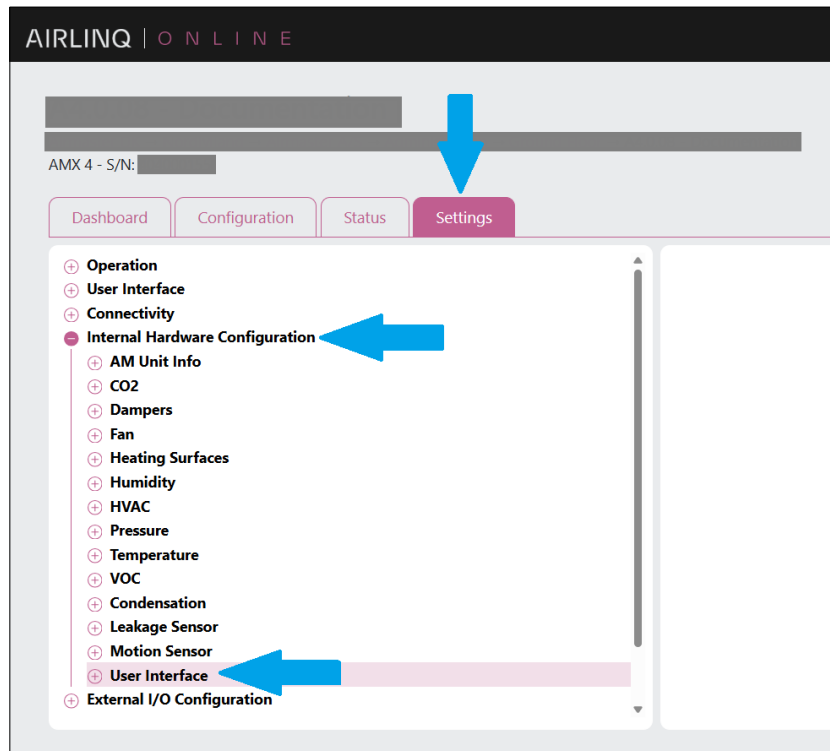


Figure 43: User Interface sub-menu

2. Click on the “Control Panel Orientation” sub-menu, see Figure 44 below.

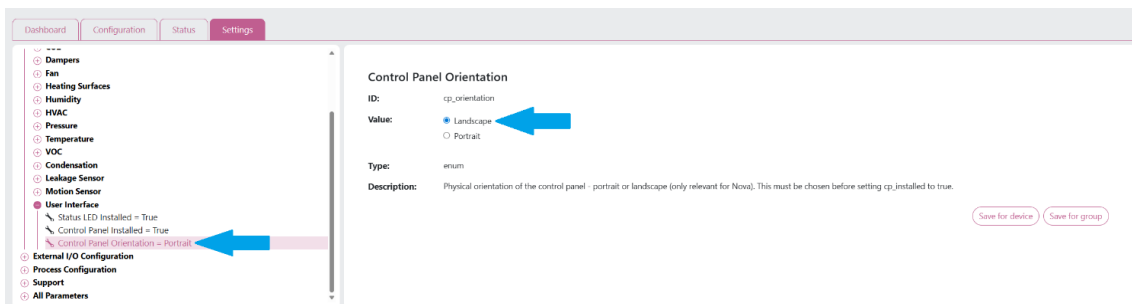


Figure 44: Control Panel Orientation sub-menu

Set the value to “Landscape” on the right-hand side of the window.

3. Click “Save for device” in the lower right-hand corner.
 4. Reboot the unit.
- After reboot, the panel is ready for use in landscape mode.

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Errors and omissions excepted. Subject to change without notice. Original user instruction.