Step 8. PSU Cable Identification

PSU cables are connected to the Central Display via the terminal block labelled 'POWER'. Surplus cable can either be shortened or stored inside the Central Display enclosure.
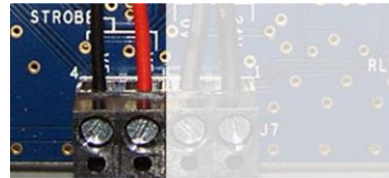
Plug-in type PSU cable identification

Black with stripe: Positive (24V)

Black with print: Negative (0V)

Step 9. Connecting the Optional Beacon

If the optional beacon is not required proceed to Step 10.
The optional beacon cable must be connected to the terminal block labelled STROBE:

Cable connections from left to right

0V supply to Beacon

24V supply to Beacon

Cable connections from left to right

0V supply from Central Display

24V supply from Central Display

Ensure the beacon terminal block is fitted on the 0V and 24V terminals

Step 10. Connecting the Relays (if required)

If relays are not required proceed to Step 11.

Each relay has a Normally Open (NO), Normally Closed (NC) and Common (COM) terminal.

For guidance on relay configuration and testing refer to the Ax60+ Service Manual P0159-803.

Relay 1 terminal block

Relay 2 terminal block
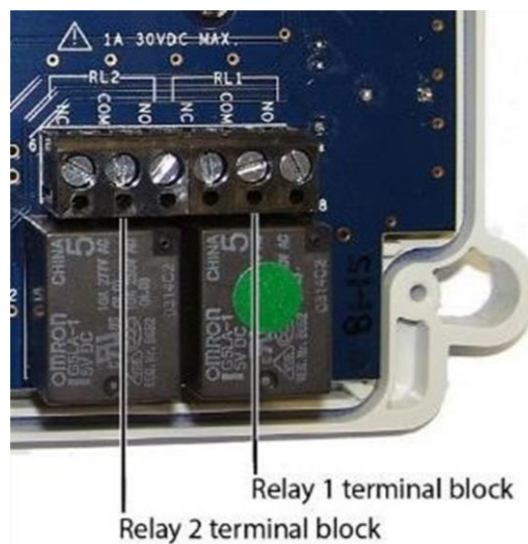
Step 11. Connecting the Central Display

The Central Display is pre-fitted with two cable glands. The gland on the right has a 2-metre cable fitted with a white RJ45 connector for connection to a Sensor.
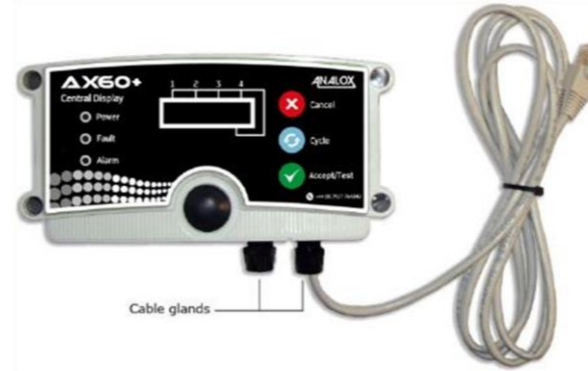
Cable glands

The empty gland on the left is for the power supply unit cable. A third gland must be fitted if the optional beacon is to be installed. Both of these cables must be fitted by the installer.

If the built-in relays R1 and R2 are being used, the same cable gland should be used for the relay cables.

Step 12. Installing the Central Display

Retain the clear protective film on the fascia until the installation is complete.

Using the supplied paper template mark out and drill the wall-fixing position ensuring the Central Display is level and fit wall plugs.

Fasten the lid of the enclosure to the base and fix the Central Display in position.

Step 13. Securing the Power Supply Unit (PSU)

If required secure the PSU in place using the securing kit supplied with the system.

Step 14. Powering up & Configuration

When you switch on the power supply the Ax60+ performs a power-on-self-test (POST) which takes about 30 seconds. The results of the POST are displayed on the screen.

Note: Ax60+ O$_2$ sensors require a warmup time of 60 minutes.

The Central Display software is factory configured for a system that has **one** Sensor. If instead the system has two, three, or four Sensors, the software must be reconfigured.

This is done by using the **Top-level Menu, Central Config, Attached snsrs** option.

To enter the **Top-level menu**, press and hold **Cancel + Cycle** for at least six seconds.

Press the **Cycle** button five times to display the **Central Config** option then follow the sequence illustrated in **Step 15.**
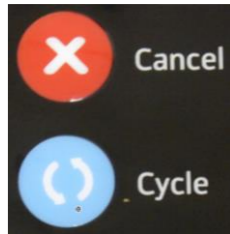
Step 15. Configuration

Menu option	Operator input	Menu sub-option	Functional description
Top-level Menu Central Config ›	▼		
	Press **Accept/Test** to go to Central Menu Attached sensors ▶	Central Menu Attached snsrs › ▼	
	Press **Accept/Test** to go to Num of sensors? ▶	Num. of sensors? >1 2 3 4	The screen displays the number of Sensors (default number is '>1')
	Press **Cycle** to choose another number. Or press **Accept/Test** ▶	Num. of sensors? 1 ✓2 3 4	The screen displays a tick to confirm the number of sensors is now configured

Press **Cancel** to return to **Config. Menu, Attached sensors**

Service and Support

If you require technical or service support please visit:
https://www.analoxsensortechnology.com/tech-and-service-support.html

Disposal

WEEE statement

According to WEEE regulation this electronic product cannot be placed in household waste bins. Please check local regulations for information on the disposal of electronic products in your area.

Analox will provide a disposal service if this is beneficial to the customer. Analox are registered for the disposal of WEEE in the UK through the Environment Agency (2013 Registration number WEE/KE0043SY).

AX60+ Quick Connect Option
Quick Start Guide

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Scan the QR code to
visit the Analox Ax60+
Web page

Introduction

TO DETERMINE FINAL SET-UP AND SENSOR CONFIGURATIONS ARE CORRECT, ENSURE STEPS 1, 14 & 15 ARE COMPLETED

This Quick Start Guide explains how to install the Ax60+ Quick Connect Option. For more information on operation and maintenance, refer to the *Ax60+ User Manual P0159-800*. This is available to download from www.analoxsensortechnology.com. For more information on servicing and calibration, refer to the *Ax60+ Service Manual P0159-803,* this is also available to download from www.analoxsensortechnology.com.

Step 1. Configuring the Sensor

The sensor is factory configured at location 1. If a system includes more than 1 sensor each one must be reconfigured by moving the jumper link ( ) to the appropriate sensor location, e.g., a system comprising 2 sensors has the jumper link fitted at **sensor 1 location 1**, **sensor 2 location 2** and so on.

SENSOR 1 POSITION 1

SENSOR 2 POSITION 2

SENSOR 3 POSITION 3

SENSOR 4 POSITION 4
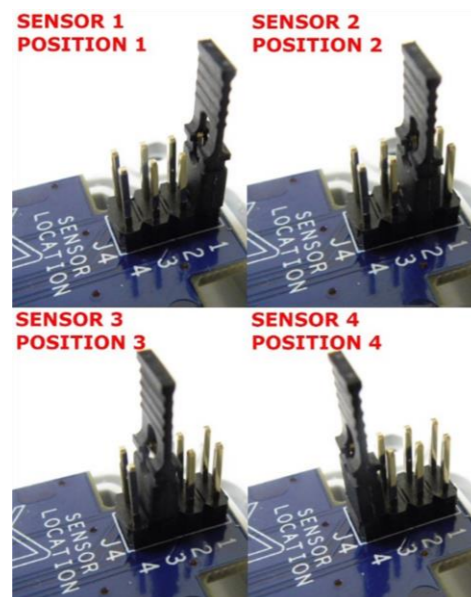
Step 2. Installing the Sensor and Alarm

**CARBON DIOXIDE GAS (CO_2) IS HEAVIER THAN AIR AND SHOULD BE MONITORED FROM A LOW HEIGHT. YOU SHOULD THEREFORE INSTALL A CO_2 SENSOR AT A HEIGHT OF 12–18" (305–457MM) ABOVE THE FLOOR LEVEL.
OXYGEN (O_2) SENSORS SHOULD BE INSTALLED AT AVERAGE WORKING HEAD HEIGHT**

SENSOR

ALARM

Alarms should ideally be located at the entrances to the danger area where visibility is not obscured. Refer to your own risk assessment for best location.

Retain the clear protective film on the fascia until the installation is complete.

Using the supplied paper template mark out and drill the wall-fixing position then install the wall plugs and fit the unit.
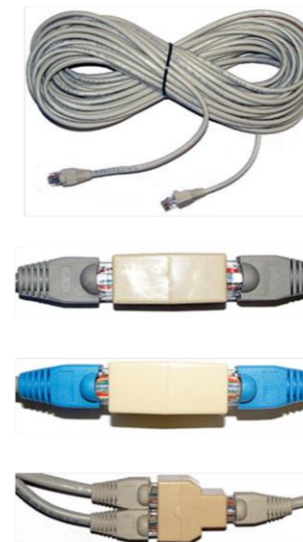
Step 3. Cabling

The supplied extension cables are 15 metres long and are fitted with a grey RJ45 connector at each end.

The supplied RJ45 coupler is used to connect two RJ45 connectors.
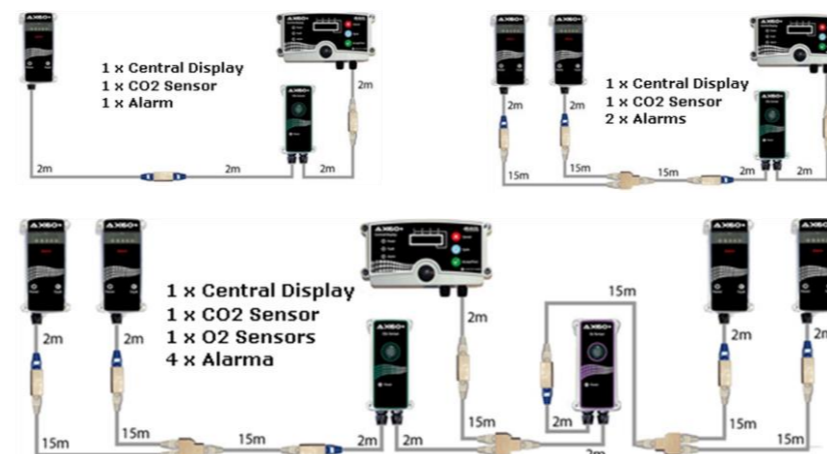
The RJ45 splitter is used to connect two Sensors or two Alarms on a common cable.

- Grey RJ45 connects *Central Display-to-Sensor* and *Sensor-to-Sensor*.
- Blue RJ45 connects *Sensor-to-Alarm*

Step 4. Example of Optional Layouts

In its simplest form a Quick Connect Ax60+ system could incorporate a central display, one sensor and one alarm. A larger Ax60+ system could incorporate a central display, four sensors and eight alarms.

1 × Central Display
1 × CO2 Sensor
1 × Alarm

1 × Central Display
1 × CO2 Sensor
2 × Alarms

1 × Central Display
1 × CO2 Sensor
1 × O2 Sensors
4 × Alarma

Step 5. Connecting the Sensor

The Sensor is pre-wired with:

- A 2m cable with a grey RJ45 connector for connection to the Central Display
- A 2m cable with a blue RJ45 connector for connection to the Alarm(s)
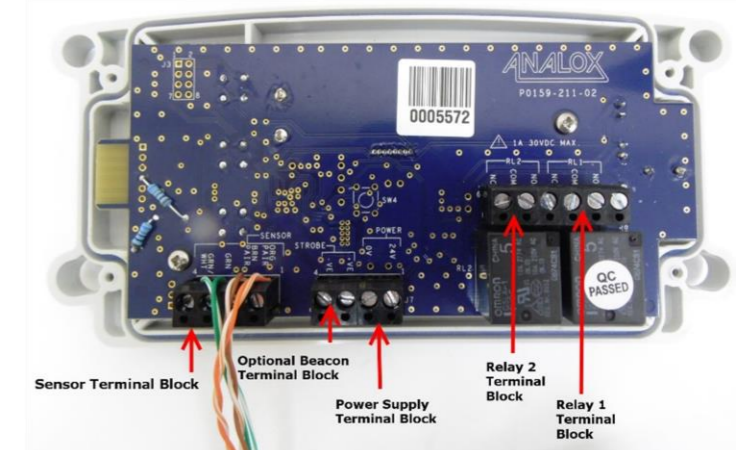
Step 6. Connecting the Alarm

The Alarm is fitted with a 2-metre cable with a blue RJ45 connector. This should be connected to the blue connector of the Sensor associated with the Alarm.

Step 7. Central Display Connections

Sensor Terminal Block

Optional Beacon Terminal Block

Power Supply Terminal Block

Relay 2 Terminal Block

Relay 1 Terminal Block

The Central Display`s terminal blocks must be connected to the power supply, beacon and relays (the Sensor terminal block has a cable already fitted).