

# AX60+ Quick Connect Option Quick Start Guide

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## Introduction



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](http://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](http://www.analoxsensortechnology.com).

## Step 1. Installing the Sensor and Alarm

**CARBON DIOXIDE GAS (CO2) IS HEAVIER THAN AIR AND SHOULD BE MONITORED FROM A LOW HEIGHT. YOU SHOULD THEREFORE INSTALL A CO2 SENSOR AT A HEIGHT OF 12-18" (305-457MM) ABOVE THE FLOOR LEVEL.**

**OXYGEN (O2) SENSORS SHOULD BE INSTALLED AT AVERAGE WORKING HEAD HEIGHT**

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 ensuring the unit is level then install the wall plugs and fit the unit.

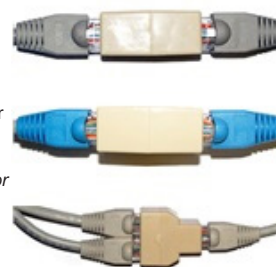


## Step 2. Cabling

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.

- White RJ45 connects Central Display-to-Sensor and Sensor-to-Sensor.
- Blue RJ45 connects Sensor-to-Alarm



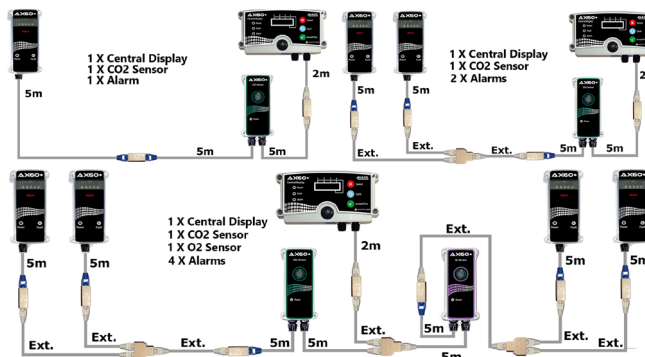
## Step 5. Connecting the Alarm

The Alarm is fitted with a 5-metre cable with a blue RJ45 connector. This should be connected to the blue connector of the Sensor associated with the Alarm.



## Step 3. 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.



## Step 6. 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 4. Connecting the Sensor

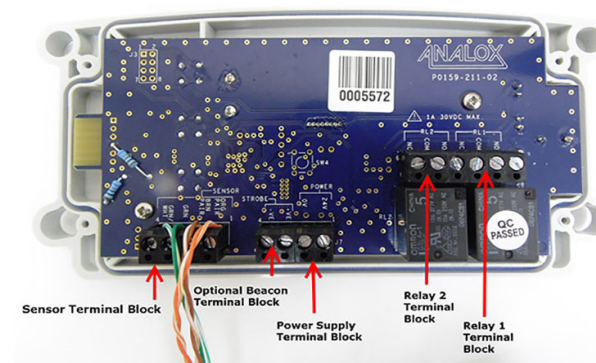
**Note: If the package has 2 sensors then sensor 2 is identified by the number 2 label on top of the sensor enclosure.**

The Sensor is pre-wired with:

- A 5m cable with white RJ45 connector for connection to the Central Display
- A 5m cable with blue RJ45 connector for connection to the Alarm(s)



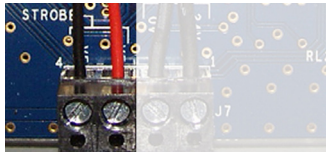
## Step 7. Central Display Connections



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).

### Step 8. Connecting the Optional Beacon

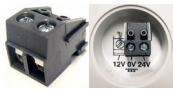
If the optional beacon is not required proceed to Step 10.  
The optional beacon cable must be connected to the terminal block labelled **STROBE**:



**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



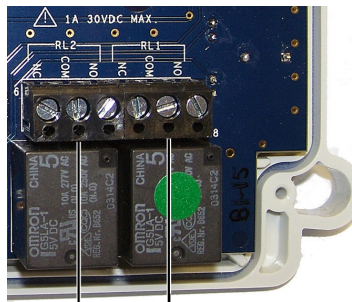
Ensure the beacon terminal block is fitted on the 0V and 24V terminals

### Step 9. 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.

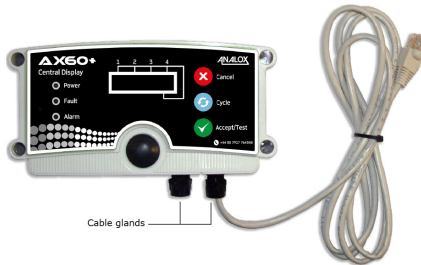
For guidance on relay configuration and testing refer to the Ax60+ Service Manual P0159-803.



Relay 1 terminal block  
Relay 2 terminal block

### Step 10. 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 11. Installing the Central Display

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

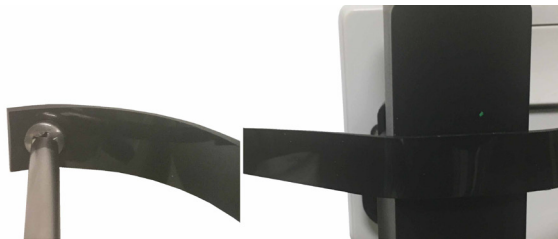
Using the supplied paper template mark out and drill the wall-fixing position ensuring the Central Display is level. Then fit the wall plugs.

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



### Step 12. Securing the Power Supply Unit (PSU)

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



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

### Step 13. 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.

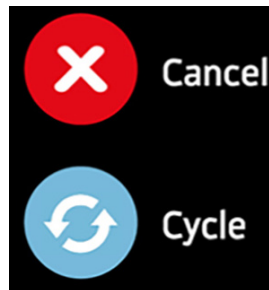
**Depending on the type of sensor the warm up period can take up to 1 hour.**

The Central Display software is factory configured. If adding further sensors, the software must be reconfigured.

This is done by using the **Top-level Menu, Central Config, Attached snrs** 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 14. Configuration

Menu option	Operator input	Menu sub-option	Functional description
Top-level Menu Central Config >	Press <b>Accept/Test</b> to go to Central Menu Attached sensors	Central Menu Attached snrs >	
	Press <b>Accept/Test</b> 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 <b>Cycle</b> to choose another number, OR, press <b>Accept/Test</b>	Num. of sensors? 1 ✓2 3 4	The screen displays a tick to confirm the number of sensors is now configured

### Data Output Module

If a Data Output Module is required this is available for purchase from Analox.

For set-up please refer to the quick start guide supplied with the module and also refer to the Ax60+ Service Manual P0159-803 which is available to download from [www.analoxsensortechnology.com](http://www.analoxsensortechnology.com)



### 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).

