

# AX60+ Hard Wired Option Quick Start Guide

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## Introduction

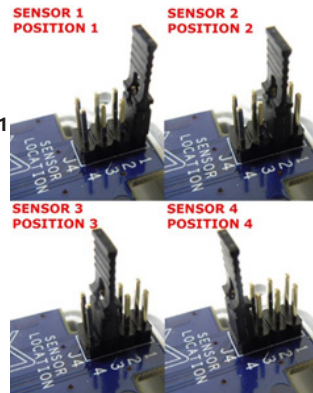
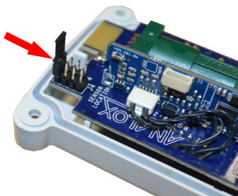


**TO DETERMINE FINAL SET-UP AND SENSOR CONFIGURATIONS ARE CORRECT, ENSURE STEPS 1, 14 & 15 ARE COMPLETED**

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.



## Step 2. Installing the Sensor and Alarm

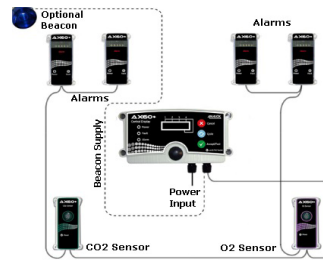
**CARBON DIOXIDE GAS (CO2) IS HEAVIER THAN AIR AND SHOULD BE MONITORED FROM A LOW HEIGHT. YOU SHOULD THEREFORE INSTALL A CO2 SENSOR AT A HEIGHT OF 12-18" (305-457MM) ABOVE THE FLOOR LEVEL. OXYGEN (O2) SENSORS SHOULD BE INSTALLED AT AVERAGE WORKING HEAD HEIGHT.**

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 then install the wall plugs and fit the unit.



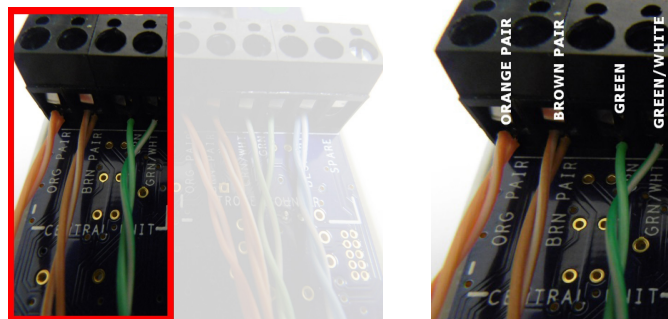
## Step 3. Cabling

The diagram below illustrates a typical cabling arrangement for the Hard Wired option. The recommended cable for the Ax60+ is Cat5e UTP 24AWG PVC.



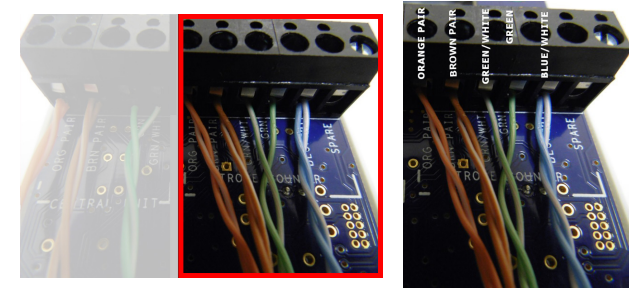
## Step 4. Connecting the Sensor to Central Display

The wiring can either be connected via the 'knock-out' on the rear of the unit or the optional gland(s) (Blanking discs to be removed) on the bottom of the unit. Connect the wiring as illustrated below.

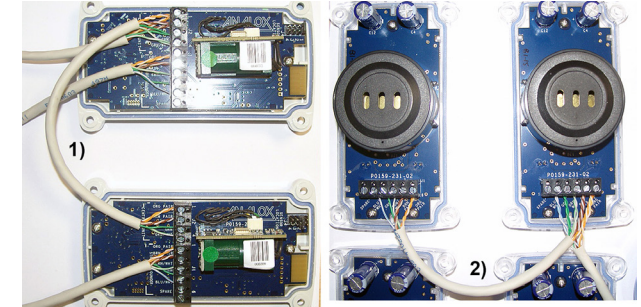


## Step 5. Connecting the Sensor to the Alarm

The wiring can either be connected via the 'knock-out' on the rear of the unit or the optional gland(s) (Blanking discs to be removed) on the bottom of the unit. Connect the wiring as illustrated below. Depending on the type of sensor the warm up period can take up to 1 hour.



## Step 6. Daisy-Chaining Sensors and Alarms



Daisy-chaining is the means by which the alarms can be connected sequentially. Follow the same wiring sequence described in step 5. Note that wiring access is on the rear of the unit only. The wiring can either be connected via the 'knock-out' on the rear of the unit or the optional gland(s) (Blanking discs to be removed) on the bottom of the unit.

## Step 7. PSU Cable Identification



### Plug-in type PSU cable identification

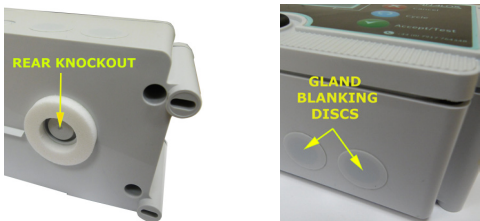
Black with stripe: Positive (24V)  
Black with print: Negative (0V)  
Printed (-V) Stripe (+V)

### Hard wired type PSU cable identification

Black with stripe: Negative (0V)  
Black with print: Positive (24V)  
Printed (+V) Stripe (-V)

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.

### Step 8. Connecting the Central Display

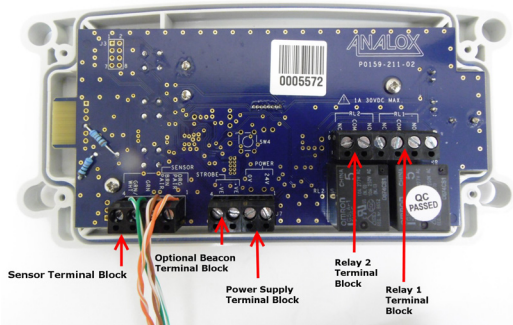


The power and comms wiring can either be connected via the 'knock-out' on the rear of the unit (A) or the optional gland(s) (Blanking discs to be removed) on the bottom of the unit (B).

A third gland must be fitted if the optional beacon is to be installed. 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.

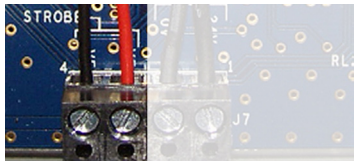
### Step 9. Central Display Connections



The Central Display's terminal blocks must be connected to the power supply, sensor, beacon and relays (if required).

### Step 10. 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

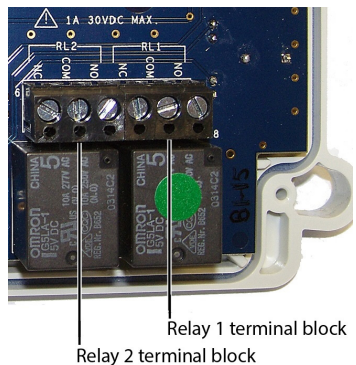


Ensure the beacon terminal block is fitted on the 0V and 24V terminals

### Step 11. 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. P0159-803.



### Step 12. Installing the Central Display

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

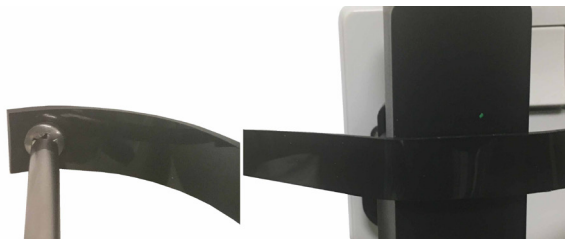
Using the supplied paper template mark out and drill the wall-fixing position ensuring the Central Display is level. Then fit the wall plugs.

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+ O2 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 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 15. 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

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).