

Ax60+ Multi-Gas, Quick Connect Option

Quick Start Guide



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Safety information

Warnings are used in this Quick Start Guide to indicate potentially hazardous situations which could result in serious injury or death. Cautions are used to indicate potentially hazardous situations that could result in equipment damage or loss of data. Notes are used to provide information that is important but not hazard related.

- WARNING: READ THE SAFETY INFORMATION IN THIS QUICK START GUIDE BEFORE INSTALLING OR USING THE AX60++.
- WARNING: DO NOT TEST THE ALARM WHEN IT IS CLOSE TO THE EARS. IT HAS A HIGH VOLUME SOUNDER WITH A SOUND LEVEL OF 88 DECIBELS AT A DISTANCE OF 3 METRES.
- WARNING: DO NOT TEST THE ALARM WHEN IT IS CLOSE TO THE EYES. IT HAS A HIGH VISIBILITY STROBE LIGHT WITH A LUMINOUS INTENSITY OF 100 CANDELA.
- WARNING: ENSURE YOU PERFORM A RISK ASSESSMENT BEFORE INSTALLING CO₂ SENSORS AND CO₂ ALARMS. IDENTIFY POTENTIAL SOURCES OF CO₂ LEAKS AND AREAS OF HUMAN OCCUPATION. DO NOT USE A SINGLE CO₂ SENSOR TO COVER MORE THAN 80M³. USE ADDITIONAL CO₂ SENSORS IF AN AREA HAS A COMPLEX SHAPE, PHYSICAL OBSTACLES, POOR VENTILATION OR ZONES WHERE CO₂ MAY COLLECT.
- ▲ WARNING: INSTALL CO₂ SENSORS AT A HEIGHT OF 12–18" (305–457MM) ABOVE FLOOR LEVEL. THIS IS BECAUSE CO₂ IS HEAVIER THAN AIR AND MAY COLLECT AT A LOW LEVEL.
- WARNING: DO NOT OPEN THE CENTRAL DISPLAY, SENSOR OR ALARM IF THEY ARE CONNECTED TO THE POWER SUPPLY. FIRST DISCONNECT AND ISOLATE THEM FROM LIVE HAZARDOUS VOLTAGE.

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1 Introduction

This Quick Start Guide explains how to install and use the Ax60+ Quick Connect option. For more information on operation and maintenance, refer to the Ax60+ User Manual P0159-800. For more information on servicing and calibration, refer to the Ax60+ Service Manual P0159-803. These are available to download from http://www.analox.net/

The standard Ax60+ is available as either a **Hard Wired** or a **Quick Connect** option. This choice must be made when placing the order. Hard Wired systems are intended to be integrated with the building fabric. Quick Connect systems are pre-wired with Cat5e cables fitted with colour-coded RJ45 connectors for easy installation. Both require the installer to connect the power supply unit and optional beacon to the Central Display.

The Ax60+ **Kiosk** option is a more compact solution that offers the convenience of Quick Connect cabling and does not require a Central Display unit.

1.1 Purpose of the Ax60+

The Ax60+ is a life-safety device that measures the amount of carbon dioxide (CO₂) in the air. If a CO₂ Sensor detects a potentially dangerous level of CO₂ it triggers an alarm on the Central Display which is then announced by the CO₂ Alarms.

The Central Display provides real-time gas readings from each CO_2 Sensor together with any alarm or fault indications. The Central Display can be easily interrogated to show detailed information on the CO_2 Sensors and CO_2 Alarms that are connected to it.

An Ax60+ Central Display can be connected to a maximum of four CO_2 Sensors and a maximum of eight CO_2 Alarms. To extend the alarm functions, an optional beacon is available and two alarm-relay outputs are provided for integration with other systems.

The Central Display is usually installed in a principal location (e.g. a Manager's office) and connected to one or more CO_2 Sensors fitted in remote areas such as store rooms or service corridors.

The CO_2 Sensors send alarm signals to one or more CO_2 Alarm units in locations where they can be observed by management or crew. The Central Display monitors the CO_2 Sensors and displays their current status and CO_2 measurements.

1.2 The dangers of CO₂

Fresh air contains a safe level of CO_2 , 0.04% or 400ppm (parts per million). An increase to 1.5% (15,000ppm) causes drowsiness, headache and increased breathing. A level of 3% (30,000ppm) causes dizziness. 10% (100,000ppm) will cause unconsciousness and eventually death. CO_2 is odourless and colourless and is not detected by human senses. There is a danger to health wherever pressurised or concentrated CO_2 is stored or used.

1.3 Ax60+ default alarm settings

The Ax60+ has three alarm settings which are factory set:

- Time-weighted average (TWA) alarm
 - triggered by 5000 ppm (0.5%) CO₂ over the previous 8 hours. TWA alarm is displayed on the CO₂ Sensor by a flashing red indicator LED and internal buzzer
- Low alarm
 - triggered by 15,000ppm (1.5%) CO₂. Low alarm is announced by both the CO₂ Sensor (internal buzzer) and the CO₂ Alarm (high-visibility strobe)
- High alarm
 - triggered by 30,000ppm (3%) CO₂. High alarm is announced by both the CO₂
 Sensor (internal buzzer) and the CO₂ Alarm (strobe light and sounder)

1.4 Package contents

Ax60+ Carbon Dioxide Detector (contents may vary depending on the package ordered)	 1 x Central Display, including: 1 x 2m factory fitted Quick Connect (QC) cable with white RJ45 connector (for connection to Sensor) 1 x power supply unit (PSU), either hard-wired type or plug-in type depending on the package ordered 1 x PSU securing strip (for plug-in type PSU only) 1 to 4 x Sensors (depending on the package ordered) each with: 1 x 2m factory fitted QC cable with white RJ45 connector (for connection to the Central Display or another Sensor) 1 x 2m factory fitted QC cable with blue RJ45 connector (for connection to Alarm) 1 x 15m QC extension cable with 2 x white RJ45 connectors (for larger installations) 1 to 8 x Alarms (depending on the package ordered) each with: 1 x 2m factory fitted QC cable with blue RJ45 connector (for connection to Sensor) 1 x 15m factory fitted QC extension cable with 2 x white RJ45 connector (for connection to Sensor) 1 x 15m factory fitted QC extension cable with 2 x white RJ45 1 x 15m factory fitted QC extension cable with 2 x white RJ45 1 x 15m factory fitted QC extension cable with 2 x white RJ45 1 x 16m factory fitted QC extension cable with 2 x white RJ45 1 x 15m factory fitted QC extension cable with 2 x white RJ45 1 x Quick Start Guide & templates Selection of RJ45 couplers and RJ45 splitters 1 x high-visibility optional beacon (if ordered) 1 x Signage pack (If purchased at time of order)
Consumables (depending on the package)	Wall plugs and screws (fixing kits), quantity to suit installation
Tools (to be provided by installer)	PZ1 Pozi screwdriver; 3mm flat blade screwdriver Cat5e cable jacket stripper; 24AWG wire stripper Drill and drill bits for wall plugs; spirit level, tape measure, ruler Small hammer, centre punch and pliers for removing knockouts

2 Installation

♦ CAUTION: SOME ENCLOSURES ARE SUPPLIED UNFASTENED WITH FIXING SCREWS LOOSE. DO NOT OVER-TIGHTEN THE SCREWS WHEN FASTENING THE LIDS ON.

2.1.1 Central Display

Retain the clear protective film on the fascia until the installation is complete. Using the supplied paper template mark out the wall-fixing position ensuring the Central Display is level. If you are installing cable through the rear of the enclosure, remove the knockout then fit a foam gasket over its aperture to provide a seal against ingress.

 CAUTION: TO PREVENT DAMAGE TO THE FASCIA AND PRINTED CIRCUIT BOARD (PCB), REMOVE THEM FROM THE ENCLO-SURE BEFORE REMOVING KNOCKOUT.

Drill holes in the wall then fit wall plugs/dowels. Fasten the lid of the enclosure to the base then fix the Central Display in position. Install the cables in position and cut them to length (HW).

2.1.2 Sensor

Retain the clear protective film on the fascia until the installation is complete. Using the supplied paper template mark out the wall-fixing position ensuring the Sensor is level. (If installing a cable through the rear, remove the knockout.)

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

Drill holes in wall, install wall plugs/dowels then fit the Sensor. Install the cables in position and cut them to length (HW).

2.1.3 Alarm

WARNING: LOCATE THE ALARM SO AS TO PROVIDE COVERAGE FOR ACCESS AND EGRESS POINTS AND BUSY AREAS.

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

Using the supplied paper template mark out the wall-fixing position ensuring the Alarm is level. (If installing a cable through the rear, remove the knockout.)

Drill holes in wall, install wall plugs/dowels then fit the Sensor. Install the cables in position and cut them to length (HW).







3 Components

The Ax60+ Quick Connect option is pre-wired with Cat5e cables and colour-coded RJ45 connectors for easy connection. The Quick Connect components are shown below.

3.1.1 **Central Display**



3.2 Sensor

The Quick Connect Central Display is pre-fitted with two cable glands (see left). The gland on the right has a 2-metre cable fitted with a white RJ45 connector for connection to a Sensor.

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, another knockout should be removed from the enclosure and an additional gland should be fitted for the relay cables.

The Quick Connect Sensor is fitted with two cable glands, pre-wired with two cables:

- 2m cable with white RJ45 connector for connection to the Central Display
- 2m cable with blue RJ45 connector for connection to the Alarm(s)

The cable with the white RJ45 connector should be connected to the Central Display via an RJ45 coupler.

The cable with the blue RJ45 connector should be connected to the Alarm (which also has a blue connector) via an RJ45 coupler (or an RJ45 splitter if there is more than one Alarm).

The Quick Connect Alarm is fitted with one cable gland and a 2-metre cable with a blue RJ45 connector. This should be connected to the Sensor associated with the Alarm, via an RJ45 coupler (or an RJ45 splitter if there is

more than one Alarm).

Pre-wired cables for connection to the Alarm (left), and to the Central Display (right)

3.3 Alarm



Pre-wired cable for connection to a Sensor

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3.4 Cables and connectors

The couplers, splitters, connectors and extension cables supplied with the Ax60+ Quick Connect are shown below. These provide enough flexibility for a typical installation.

CAUTION: ENSURE THAT THE MAXIMUM CABLE LENGTH BETWEEN THE CENTRAL DISPLAY AND THE FINAL SENSOR IS NOT MORE THAN 100 METRES.



Extension cables

The extension cables supplied with the Quick Connect are 15 metres long. The cables are fitted with a white RJ45 connector at each end.

One 15m extension cable is supplied with each Sensor. One 15m extension cable is supplied with each Alarm.

The extension cables are used for installations where a greater cable length is required.

The extension cables may be connected to the 2-metre pre-fitted enclosure cables, using the supplied RJ45 couplers and RJ45 splitters.







RJ45 coupler

The supplied RJ45 coupler (left) is used to connect two white RJ45 connectors. White RJ45 connectors are used for all *Central Display-to-Sensor* and *Sensor-to-Sensor* connections.

The same RJ45 coupler is used to connect the blue RJ45 connectors which are used for all *Sensor-to-Alarm* connections.

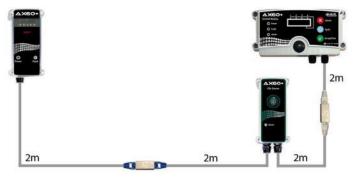
RJ45 splitter

The RJ45 splitter (left) is used to connect two Sensors or two Alarms on a common cable.

Layouts

4

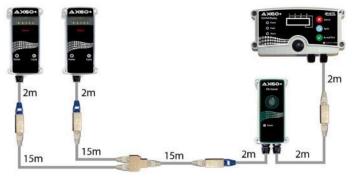
In its simplest form a Quick Connect Ax60+ system could incorporate a Central Display, one Sensor and one Alarm. A larger Ax60+ system could incorporate a Central Display, four Sensors and eight Alarms. Some typical layouts are shown below.



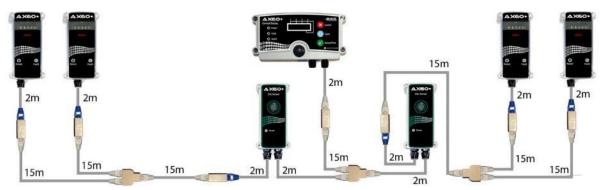
1 x Central Display; 1 x CO₂ Sensor; 1 x Alarm

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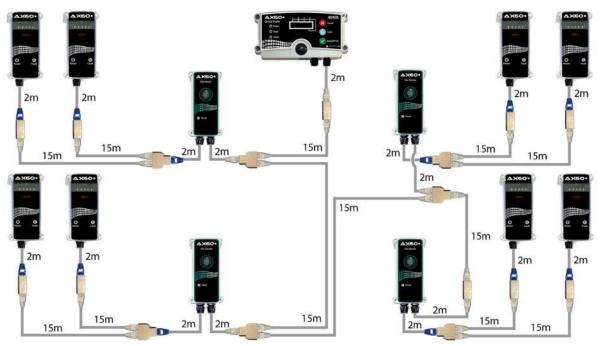
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1 x Central Display; 1 x CO₂ Sensor; 2 x Alarms



1 x Central Display; 1 x CO₂ Sensor; 1 x O₂ Sensor; 4 x Alarms



1 x Central Display; 2 x CO₂ Sensors; 2 x O₂ Sensors; 8 x Alarms

The 2-metre cables shown in the diagrams above are pre-fitted to the enclosures. The supplied 15-metre cables, RJ45 couplers and RJ45 splitters allow the system to be customised to suit the building. Other system layouts are possible, providing that the maximum number of CO_2 sensors (4) and CO_2 alarms (8) are not exceeded.

NOTE: FOR INFORMATION ON CONNECTING THE POWER SUPPLY UNIT, THE OPTIONAL BEACON AND THE RELAYS, REFER TO SECTION 5.

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5 Connection

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



DETAILS ON CONNECTING RELAYS 1 & 2.

WARNING:

TO COMPLY WITH THE RELEVANT SAFETY STANDARDS, CIRCUITS CONNECTED TO RELAYS 1 AND 2 MUST BE PROTECTED WITH DOUBLE/REINFORCED INSULATION FROM THE MAINS.

5.1 Central Display to power supply unit (PSU)

Two types of PSU are available, to suit different types of installation. One is a plug-in type, the other is a hard-wired type for connection to a fixed power supply (fused spur).





PSU, plug-in type (supplied with UK, Eu, US and Aust Plugs) PSU, hard-wired type PSU, plug-in type (supplied with UK, Eu, US (for connection to a and Aust Plugs) fixed power supply)

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.

WARNING:

THE POSITIVE AND NEGATIVE POWER CABLES ARE IDENTIFIED DIFFERENTLY DEPENDING ON THE TYPE OF PSU SUPPLIED. READ THE INSTRUCTIONS BELOW BEFORE INSTALLING THE PSU CABLE.

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5.1.1 PSU cable identification

Plug-in type PSU cable identification

Black with stripe: Positive (24V) Black with print: Negative (0V)



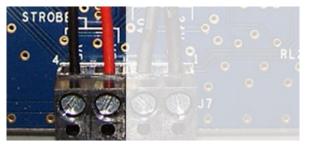
Hard wired type PSU cable identification

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

CAUTION: HARD-WIRED PSU SHOULD BE CONNECTED TO A 3A FUSED SPUR.

5.2 Optional beacon

The optional beacon cable must be connected to the terminal block labelled **STROBE**:



Cable connections from left to right: BLK (0V supply to optional beacon) RED (24V supply to optional beacon)

CAUTION: CABLE COLOURS BETWEEN THE CENTRAL DISPLAY AND BEACON MAY VARY. THE INSTALLER MAY USE CAT5E CABLE IF PREFERRED, PROVI-DING TWISTED PAIRS ARE USED. 15m CABLE IS SUPPLIED AS STANDARD.

CAUTION: ENSURE THE TERMINAL BLOCK ON THE UNDERSIDE OF THE BEACON IS FITTED TO THE OV AND THE 24V PINS. THEN ENSURE THAT THE POWER CABLES ARE CONNECTED TO THE 0V AND THE 24V SCREW TERMINALS.



Black cable: Red cable: 0V supply to Central Display 24V supply to Central Display



(left) The beacon terminal block. Ensure this is fitted on the OV and 24V terminals (right)

5.2.1 Locking mechanism

The beacon has a locking mechanism to discourage tampering. To lock the beacon onto its base, locate the spigots in position then twist the beacon clockwise. To unlock the beacon, prise open the locking clip as shown below and twist the beacon anti-clockwise.

CAUTION: IF THE BEACON IS VERY TIGHT ON ITS BASE DO NOT USE EXCESSIVE FORCE TO REMOVE IT. UNDO THE LOCKING MECHANISM AS SHOWN.





NOTE: FOR MORE INFORMATION, READ THE LEAFLET SUPPLIED WITH THE BEACON.

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6 Operation

6.1 Central Display

The Central Display is used to configure and operate the system. The three buttons on the front panel allow access to the software functions. The three LED (light-emitting diode) indicator lamps display the system status. Their functions are described below.



6.1.1 Indicators and buzzer

Power Green indicator lamp. Flashes once per second to indicate that the is on and the unit is operating.				
Fault	Yellow indicator lamp. Flashes once per second if there is a fault. Accompanied by a fault message (FLT or COMMS FAULT) and buzzer once per second.			
Alarm	Red indicator lamp. Flashes rapidly when alarm is triggered. Accompanied by an alarm message (either $AL1$ or $CO2$) and rapid operation of the buzzer.			
Buzzer (the small circular aperture on the left of the indicators)	Buzzer sounds briefly each time a button is pressed. Sounds continuously for five seconds when using the TESTING ALARMS function. It sounds rapidly on and off when an alarm is triggered, or once per second for a fault.			

6.1.2 Control buttons

Cancel	To use the Cancel button, press it firmly then release it quickly. The buzzer will sound briefly. Press this button to cancel a menu option or return to the previous screen.
Cycle	To use the Cycle button, press it firmly then release it quickly. The buzzer will sound briefly. Press this button to go to the next option on the screen.
Accept/Test	To use the Accept/Test button, press it firmly then release it quickly; the buzzer will sound. A short press is used to select an option or mute an alarm or fault. A longer press is used to acknowledge the alarm (hold the button until the buzzer sounds). The alarm clears when the CO ₂ reduces. To test the alarms, press and hold down Accept/Test until the buzzer sounds. Alarms, indicators and sounders operate for five seconds.

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6.2 Sensor

The Sensor has a green Power indicator on the bottom left-hand part of the fascia. This is used to indicate the following conditions:



Power indicator

Under normal conditions the Power indicator flashes once per second to indicate that the power is on and the unit is operating.

NOTE: THE SENSOR RECEIVES ITS POWER FROM THE CENTRAL DISPLAY, VIA THE CONNECTING CAT5E CABLE.

If the Power indicator is off, this means the Sensor is either not receiving power from the Central Display, or the Sensor has a fault.

NOTE: CHECK THE CENTRAL DISPLAY: IT MAY BE SHOWING A FAULT CODE.

If the Power indicator lamp is on continuously, this means that there is potentially a more serious Sensor fault.

NOTE: CHECK THE CENTRAL DISPLAY; IT MAY BE SHOWING A FAULT CODE.

If a Sensor is in fault, any Alarms connected to it will also display a fault status (their yellow Fault indicator LEDs will flash).

NOTE: FAULT CODES ARE DESCRIBED IN DETAIL IN THE SERVICE MANUAL.

6.2.1 Sensor hardware settings

In a standard Ax60+ system—not including the Kiosk option—each Sensor must have its jumper link set to a different location e.g. Sensor 1=location 1; Sensor 2=location 2.

The Sensor has a hardware setting that is factory configured for a system with only one Sensor. If a system includes two, three, or four Sensors then the hardware must be reconfigured by moving a jumper link (

DISCONNECT AND ISOLATE THE AX60+ SYSTEM FROM THE MAINS WARNING: POWER SUPPLY BEFORE OPENING THE SENSOR ENCLOSURES.

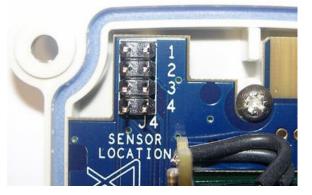
To access the jumper link, open the Sensor enclosure. The printed circuit board (PCB) has a SENSOR LOCATION selector with one link, factory installed in LOCATION 1.

For a system with only **one Sensor**, the jumper link should be retained in LOCATION 1.

For a system with **two Sensors**, the first Sensor's jumper link should be in LOCATION 1 and the second Sensor's link in LOCATION 2.

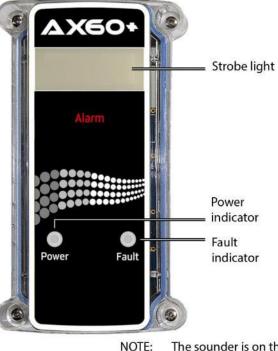
For a system with three Sensors, the first Sensor's link should be in LOCATION 1, the second Sensor's link in LOCATION 2 and the third Sensor's link should be in LOCATION 3.

For a system with four Sensors, the first Sensor's jumper link should be in LOCATION 1, the second Sensor's link in LOCATION 2, the third Sensor's link in LOCATION 3 and the fourth Sensor's link should be in LOCATION 4.



6.3 Alarm

The Ax60+ Alarm has a green Power indicator and a yellow Fault indicator on the bottom part of the fascia. These are used to indicate the following conditions:



E: The sounder is on the rear of the enclosure

Power indicator

Under normal conditions the Power indicator is continuously on (not flashing) to indicate that the power is on and the unit is operating.

NOTE: THE CO₂ ALARM RECEIVES ITS POWER FROM THE CO₂ SENSOR, VIA THE CONNECTING CATSE CABLE.

If the Power indicator lamp is off this means that the Alarm is not receiving power.

Fault indicator

Under normal conditions the yellow Fault indicator is off.

NOTE: THE FAULT INDICATOR IS NOT USED TO SHOW FAULTS ON THE ALARM, IT IS USED TO SHOW FAULTS ON THE SENSOR CONNECTED TO IT.

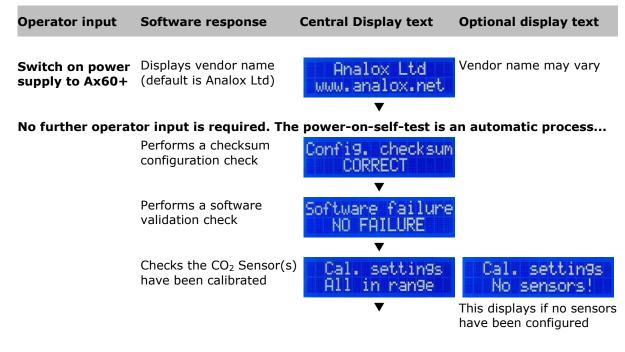
If the Fault indicator is flashing it means the Sensor connected to the Alarm is in fault.

NOTE: FAULT CODES ARE SHOWN ON THE CENTRAL DISPLAY. FOR FURTHER DETAILS SEE THE SERVICE MANUAL.

6.4 **Powering up**

6.4.1 Power-on-self-test (POST)

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:



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Operator input	Software response	Central Display text	Optional display text
	Confirms top line of LCD OK, no pixels are missing	Is line 1 OK ?	
	Confirms bottom line of LCD OK, no pixels missing	Is line 2 OK ?	
	Confirms buzzer is off and green LED switches on	Buzzer is off ? Green LED on ?	
	Confirms green LED is off and yellow switches on	Green LED off ? Yellow LED on ?	
	Confirms yellow LED is off and red switches on	Yellow LED off ? Red LED on ?	
	Confirms red LED is off and buzzer switches on	Red LED off ? Buzzer is on ?	
	Displays current version of the software and the buzzer switches off	Software version v1.0.0	
	Displays unique serial number of the unit	Serial number: 0000000	
		▼	
Wait for Sensors to warm up		>OK OK 1: Warm-up	
		This screen may display for a few seconds to show CO_2 Sensor warm-up status. It is for information only. It	V
		requires no operator inpu	t
♦ CAUTION:	LOCATION (E.G. SEN 2), OTHERWISE THE		SENSOR 2 = LOCATION LL ANNOUNCE A FAULT.
Wait for system status screen	Displays system status screen. Each Sensor is represented by 'OK' in the top line. For example, a system with two Sensors displays >OK OK. The '>' character identifies which Sensor is highlighted	>0K 0K CO2 450 PPM	The example here shows that Sensor 1, a CO_2 Sensor, is reading 450 PPM, which is equal to 0.045%. The concentration is displayed in ppm (parts per million) by default

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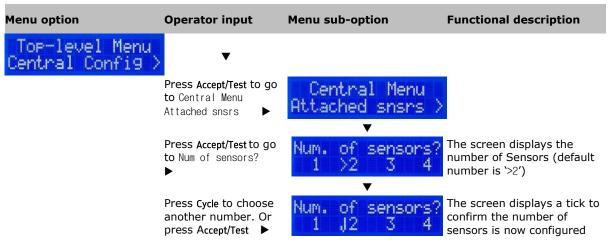
Operator input	Software response	Central Display text	Optional display text	
	(Sensor 1 is highlighted by default)			
NOTE: THE SYSTEM STATUS SCREEN DISPLAYS UP TO 4 SENSORS. A SPARE SENSOR LOCATION DISPLAYS AS ''				
	The bottom line displays the concentration of gas measured at the Sensor	•		
Press Cycle	Displays Sensor 2 details (if installed) and the current level of gas	0K >0K C02 450 PPN	In this example, Sensor 2 is a carbon dioxide (CO ₂) Sensor	
Press Cycle	Displays Sensor 3 details (if installed) and the current level of gas	OK OK > Not installed	In this example, Sensor 3 is not installed	
Press Cycle	Displays Sensor 4 details (if installed) and the current level of gas	OK OK> Not installed	In this example, Sensor 4 is not installed	
Press Cycle	Redisplays the system status screen	>0K 0K C02 450 PPM	- 1	

7 Configuration

7.1 Sensor software settings

The Central Display software is factory configured for a system that has two Sensors. If instead the system has one, 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 down Cancel + Cycle for at least six seconds. Then press the Cycle button five times to display the Top-level menu, Central Config option.

NOTE: THE DEFAULT SETTING IS FOR 2 SENSORS. THIS NUMBER CAN BE CHANGED.



Press Cancel to return to Config. Menu, Attached snsrs