

A50 Carbon Dioxide Detector Quick Start Guide

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Introduction



This Quick Start Guide explains how to install the A50 Carbon Dioxide Detector. For more information on operation and maintenance, refer to the A50 Carbon Dioxide Detector User Manual P0204-8000. This is available to download from www.analoxsensortechnology.com.

1. Install the Main Unit



NOTE: 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.

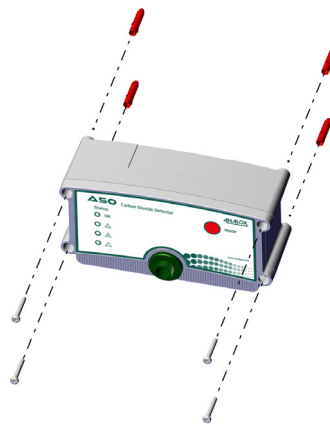


NOTE: FOR OPTIMAL PERFORMANCE, IF THERE IS A LARGE VARIANCE BETWEEN WHERE UNITS ARE STORED AND WHERE THEY ARE INSTALLED, IT IS RECOMMENDED THAT UP TO 2 HOURS IS ALLOWED AFTER INSTALLATION BEFORE APPLYING POWER. THIS IS TO ALLOW FOR TEMPERATURE STABILIZATION IN THE UNIT WHICH IS IMPORTANT FOR DEVICE ACCURACY.

If fitted, retain the clear protective film on the fascia until the installation is complete.

Using the drilling template mark out and drill the wall-fixing positions ensuring the main unit is level. Then fit the wall plugs.

Secure the main unit to the wall using the supplied No.6 self tapping screws.



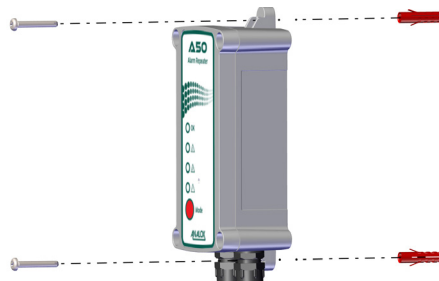
2. Fitting the Repeater

If fitted, retain the clear protective film on the fascia until the installation is complete.

Using the drilling template, mark out and drill the wall-fixing position then install the wall plugs and fit the unit.

Secure the repeater to the wall using the supplied No.6 self tapping screws.

The Remote Alarm Repeater should be located at eye level and attached to the outside or immediately inside the access door.



3. Connecting the Repeater - Hard Wired

1] Make sure the A50 is not powered up.

2] Open the Remote Alarm Repeater unit by removing the 4 screws in the front of the case and carefully pulling the case apart. The connecting wires from the A50 pass through one of the cable glands on the Remote Alarm Repeater.

3] Terminate the wires in accordance with the table.

4] Replace the lid of the Remote Alarm Repeater and refit the 4 screws.

REPEATER CABLE COLOURS	
Type 2 (Cat 5)	Repeater Term
	8
	7
	6
	5
	4
	3
	2
	1

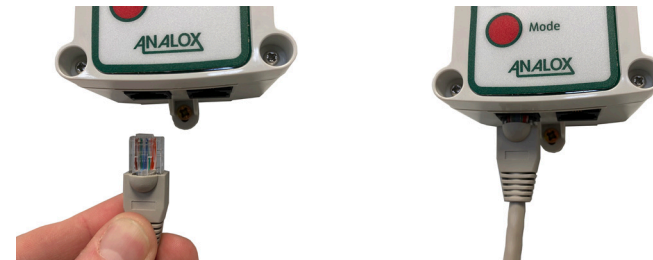


NOTE: IF YOU HAVE MORE THAN ONE ENTRANCE TO YOUR CELLAR OR STORE ROOM YOU MAY NEED MORE THAN ONE REMOTE ALARM REPEATER. UP TO THREE REPEATERS CAN BE DAISY CHAINED (ONE REPEATER LINKED TO ANOTHER) COVERING UP TO THREE ENTRANCE DOORS.

4. Connecting the Repeater - Quick Connect

1] Make sure the A50 is not powered up.

2] Insert the connector on the end of the wire into either socket on the bottom of the Remote Alarm Repeater.



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5. Powering Up

Once the repeater(s) have been connected, simply plug the mains cable coming from the main unit into an available socket and turn on, the A50 will perform a self test for approximately 40 seconds.

During normal operation, the OK status indicator will flash on and off, thus indicating that the system is operating correctly. The OK status indicator on any Remote Alarm Repeaters will also flash on and off.




6. Lamp & Alarm Test

Momentarily pressing the Mode button on either the A50 or any Remote Alarm Repeater, in the absence of any alarm conditions, causes a lamp and alarm test to be performed. The status indicators will flash 4 times, together with the horn. This test should be carried out each time the area is entered or at the start of each shift.



7. Technical Specifications

Carbon dioxide	Range 0.1-5%
Response Time	60 Seconds to T90
Operating Temperature	-5 to +40°C
Temperature Effect	<0.1%FS/°C
Sensor Type - Carbon dioxide	Analox infrared detector
Alarms	2 x Alarm status indicators 1 x Fault status indicator 1 x OK status indicator Common Audible Alarm - Horn
Power	100 – 120 VAC, 50/60Hz, <5W or 100 – 250 VAC, 50/60Hz, <5W Mains voltage supply fluctuations not to exceed 10% of the nominal voltage
Insulation	 - Class II product Double insulation or reinforced insulation according to IEC 60417-5172 (2003-20)
Overvoltage	CAT II
Pollution	Pollution degree 2
Humidity	Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
Altitude	<2000m
General	- Indoor use - Not for use in corrosive or explosive atmospheres** - Not approved for use in vehicles, ships or aircraft - The A50 conforms to DIN 6653-2:2015

** - Item only relates to CSA requirements (North America only)
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
Analox has a policy of continuous improvement and we reserve the right to upgrade or change specifications without prior notice.

8. Service and Support

If you require technical or service support please visit: <https://www.analoxgroup.com/support/support-faq>



9. Disposal

WEEE statement

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).



DRILL HOLES REQUIRE 4 x No. 6 SCREWS
(MARKED WITH CENTRE MARKS).
DRILL DEPTH = 30mm

