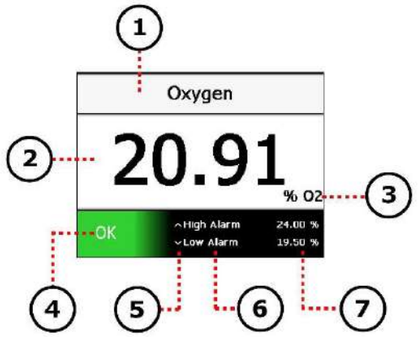
Switching the SDA On & Off

1. An SDA will automatically start up when power is supplied to it.
2. A start-up screen will display for a few seconds after which the display will go blank for up to 15 seconds.
3. The SDA will then show the main display.
4. The attached sensor may require a short time to warm.

Normal Operation Overview

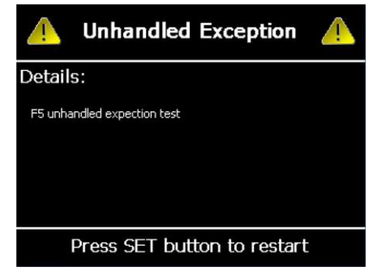
1) Device identification label
2) Live sensor reading
3) Sensor type and display units
4) System status indicator
5) Alarm direction indicators
6) Alarm names
7) Alarm set-points



Unhandled Exceptions

If the SDA reports an unhandled exception, the user should record the message displayed and report the incident to Analox by following the fault reporting procedure. The user should include the circumstances in which the unhandled exception occurred.

To return the SDA to normal function, the user should press the Set button on the front panel, this will restart the SDA, please allow the SDA to finish its warm-up cycle.



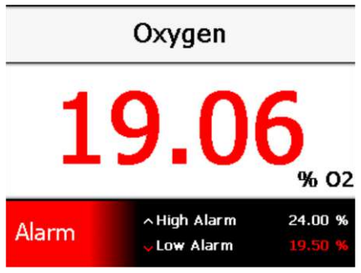
SDA Device Overview

1) Colour TFT LCD display
2) Value adjustment knob
3) Calibration adjustment toggle switch
4) Set button
5) Alarm adjustment toggle switch
6) Mute button

Alarms

When alarm conditions are identified:

1. The horn will sound
2. The status indicator will flash red showing the word 'alarm'
3. The sensor reading will be displayed, coloured red
4. The set-point for the triggered alarm will be highlighted

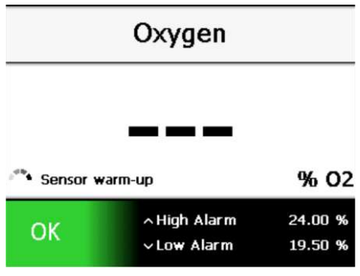


Calibration

Whilst in use, an SDA's sensor should be periodically calibrated at intervals deemed necessary for the monitoring application. Some applications require calibration at first use. This is detailed in the SDA User Manual.

Sensor Warm-Up

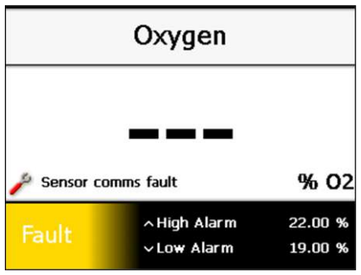
1) Warm up occurs when the SDA is initially powered and lasts 10 – 60 seconds
2) Sensors enter warm-up state whilst processing information such as calibration adjustment
3) The display reading will show as three dashes ('---') and a warm-up processing animation is displayed



Faults

When fault conditions are identified:

1. The horn will sound
2. The status indicator will flash yellow showing the word 'Fault'
3. The sensor reading will be displayed as three dashes
4. Information about the identified fault condition is displayed below the sensor reading



Service and Support

If you require technical or service support please visit:
https://customersupport.analox.net/support/home

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).

SDA

Quick Start Guide

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+44 (0)1642 711 400

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ussales@analox.biz
(714) 891 4478
Toll Free: (877) 723 3247

analoxgroup.com

Emergency Contact: UK / Global 0800 211 8160 **US** (855) 711 4994

Scan the QR code to visit the Analox SDA Web page

Document Ref: XKO-806-04

Safety Information

CAUTION: **THE OXYGEN SENSOR SUPPLIED WITH OXYGEN SDA VARIANTS CONTAINS OF AN ELECTROCHEMICAL CELL WHICH ITSELF CONTAINS A CAUSTIC ELECTROLYTE. CHECK TO MAKE SURE THAT THE CELL HAS NOT LEAKED BEFORE HANDLING. FOR FURTHER SAFETY DATA REGARDING THE OXYGEN CELL, SEE THE SDA USER MANUAL.**

CAUTION: **THE SDA IS DESIGNED FOR USE IN SITUATIONS WHERE PRESSURISED GAS MAY BE PRESENT. CONSULT THE SDA USER MANUAL FOR GUIDANCE ON SUGGESTED SAFE USE OF PRESSURISED GAS WITH SDA SYSTEMS.**

CAUTION: **TO ENSURE ELECTRO-MAGNETIC COMPLIANCE AND TO AVOID RISK OF ELECTRIC SHOCK, CONSULT THE SDA USER MANUAL FOR GUIDANCE OF CORRECT EARTH CONNECTIONS TO AN SDA SYSTEM.**

CAUTION: **DO NOT EXCEED THE SPECIFIED MAXIMUM PRESSURES. FAILURE TO DO SO MAY RESULT IN DAMAGE TO THE EQUIPMENT AND TO PERSONNEL.**

Checklist

SDA (contents may vary depending on the package ordered)	1 x SDA Monitor (Rack or Panel mount) 1 x Sensor unit (MEC, TEC, depth sensor, T&H sensor or CO2 sensor box) 1 x Push-in flow adaptor (if MEC or TEC ordered) 1 x Test Certificate 1 x SDA quick start guide
Consumables (depending on the package)	1 x SDA monitor connector kit consisting of: 2 x 5-way Phoenix connector 1 x 2-way Phoenix connector
Tools (to be provided by installer)	PZ1 Pozi screwdriver; 3mm flat blade screwdriver
Software	For SDA software scan the QR code to visit the SDA web page and download the software. Follow the instructions in the user manual for installation of the software

Installation

Rack Mounting

Rack versions are designed to be mounted onto standard 19" mounting rails. The systems are 3U high and 21hp wide so 4 modules will occupy the full width of the standard 84hp wide 19" rail.

Panel Mounting

Panel versions are suitable for direct mounting into instrument panels and they will fit the same apertures used by the older series of Analox 1000 and 5001 analysers. The cut-out aperture should measure as follows:

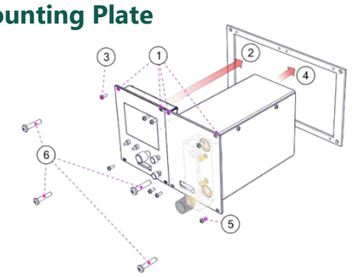
Height	112mm
Width	102mm

Mounting centres for panel mount variants should be as follows:

Holes	4 x 6mm
Height	122.5mm
Width	91.4mm
Centred	On cut out

Constructing the Combined Mounting Plate

Only required if replacing the (now obsolete) panel mount 5001



1) If fitted remove the rack mount fixings from the monitor and CO2 module
2) Place the monitor into the adaptor plate (left hand side) and align with the four tapped M3 holes
3) Secure the monitor in place with four of the provided M3x8mm Pozi-Pan screws and M3 Nordlock washers
4) Place the CO2 module through the remaining space and align with the remaining four tapped M3 holes
5) Secure in place with the remaining four M3x8mm Pozi-Pan screws and M3 Nordlock washers
6) Finally, secure the assembly into your panel using the provided M5x25mm Pozi-Pan screws and M5 captive nuts.

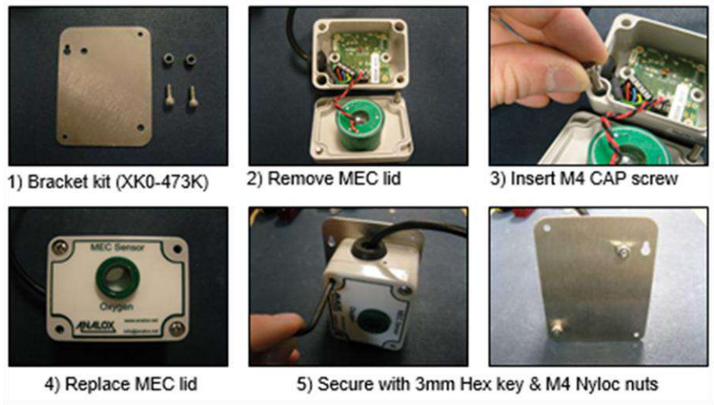
Combined Mounting Bracket Accessory

Assembly with the combined mounting bracket

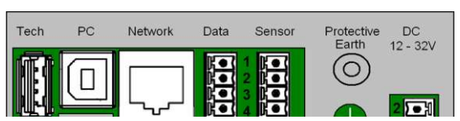
1) Sensor unit
2) Bracket
3) Optional output module

Mounting an MEC Sensor Unit

There are two optional mounting plates that can be used to mount an MEC sensor, the combined plate (Shown above) or sensor only plate (Shown below).



SDA Rear Panel Connections



Refer to the user manual for detailed wiring connections.
Power – Supply input +12 V DC to +32 V DC. (15 W maximum, 3 W typical)
Sensor – The sensor supplied with the SDA monitor should be connected to the port marked 'Sensor'.
Output module / data output – The port marked 'Data' should be used to connect an analogue and relay output module (optional accessory). The data port can alternatively be used to collect serial data from the SDA.
USB configuration port – The USB port marked 'PC' can be used to connect a computer for the purpose of modifying device settings and downloading logged data (if option is enabled).
Protective Earth – The earth stud should be used to correctly earth the device for safety and EMC reasons. See the SDA user manual for full details of correct earth connections