



Example layout of hard wired system with data output module



Example layout of quick connect system with data output module

Ax60+ Data Output Module Quick Start Guide

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Introduction

The Data Output Module (DOM) can be connected to an existing Ax60+ system to give real-time indication of any connected sensors readings via industry standard 4-20 mA outputs and/or Modbus RTU interface. The unit is completely self-contained and simply connects to the existing CAT-5 cable installation. Both 4-20 mA outputs and Modbus RTU interface can easily and quickly be connected to a compatible device / system that can provide a visual indication of measured gas levels.

The DOM continuously monitors communications between the Central Unit and connected Sensor Units. The gas level readings are converted to a scaled mA current level between 4 and 20. A current level of 4 mA indicates a 0% of scale reading and 20 mA current level indicates a 100% of scale reading.

Additionally the Modbus RTU interface can be connected to a Building Management System (BMS), or similar, giving further information on the operational state of the Ax60+ system. The DOM can be interrogated for gas levels as displayed on the Central Unit, any active alarms and faults on a Sensor Unit and the operating condition of the DOM itself.

NOTE: THE DATA OUTPUT MODULE IS NOT COMPATIBLE WITH THE AX60+ KIOSK VARIANT.

Step 1. Installing the DOM

NOTE: Analox recommend mounting the DOM next to the central display.

Using the supplied paper template mark out the wall-fixing position. If installing a cable through the rear, remove the knockout.

Drill holes in the wall, install the wall plugs/dowels then fit the DOM. For the hard wired version install the cables in position and cut to length.



Step 2. Connecting the DOM (Hard Wired)

Remove the lid to access the PCB then connect the cables as illustrated below.



J4 Connections

J4-4 = Green/White (RS485-B)
 J4-3 = Green (RS485-A)
 J4-2 = Brown Pair (0V)
 J4-1 = Orange Pair (24V)

NOTE: The BLUE and BLUE/WHITE cables should be removed (cut off).

Step 3. Connecting the DOM (Quick Connect)



The Quick Connect DOM is fitted with one cable gland and a 2-metre cable with a grey RJ45 connector. This should be connected in-line (via the splitter) between the first Sensor and Central Display, or between sensors.

NOTE: The DOM cannot be connected between a sensor unit and an alarm.

NOTE: No cable is supplied for the 4-20mA outputs or the Modbus interface.

Step 4. Optional Layouts

See overleaf for examples of the hard wired and quick connect system layouts including the DOM.

Step 5. 4-20 mA Connections



4-20 mA SIGNALS (ACTIVE)

CH 1 = Sensor 1 reading (4-20mA)
 CH 2 = Sensor 2 reading (4-20mA)
 CH 3 = Sensor 3 reading (4-20mA)
 CH 4 = Sensor 4 reading (4-20mA)
 GND = Common ground

NOTE: The mA analogue outputs are referenced to a common Ground.

Step 6. MODBUS RTU Connections



MODBUS connections to a building management system can be made via an RS485 link to the COM, A & B terminals. Refer to P0159-803 Ax60+ Service Manual.

NOTE: J3 is used to link in the bus termination resistor. This link is to be fitted if this module is the end node on the RS485 bus.

Step 7. Fitting the Ferrite Cable Clamp (US Only)

To be compliant with (CFR) part 15 (47CFR15) connect the supplied ferrite clamp as close as possible to the BMS cable gland. This applies to both hard wired and quick connect units.



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/KE00435Y).

