



Product Overview

The AX-GS-AQ4x range of air quality sensors measure the combined pollutants (VOC's) in an area and output an analogue signal of the air quality. These are used to input to the BMS to enable efficient use of recirculated air in an HVAC system. The sensors use a MEMS Metal Oxide film which is sensitive to a range of odours, smoke, solvents and gases.

Features

- Room and Duct Sensor versions
- Combines all pollutants to give a mixed gas
- Low cost solution
 - Analogue output, stepped or relay outputs

concentration of the air quality

Product Specifications

Sensor Type: MEMS Metal Oxide film

Power Supply: 20 to 28Vac/dc **Power Consumption:** 35mA @ 24Vdc

Measurement Range: 0-2000ppm CO2 equivalent

Calibration Interval: 2 years **Accuracy:** +/- 5% FSD

Output: Standard analogue stepped output in 4 steps adjustable levels from 0-10Vdc

Standard 0-5/10Vdc linear

optional relay 2A@140Vac/30VdcSPCO

Ambient Temp. Range: 0 to +50°C

LED Display: Room Only 3 LED's indicating pollution levels Red/Green/Blue

LCD Display:Option2 line 8 characterHousing:MaterialFlame retardant ABSRoom Dimensions84x 119 x 29 mm

Duct Dimensions 145 x 100 x 63 mm Probe 177 x 25.4 diam

Protection: Duct Housing IP65

Room Housing IP30

Conformity: CE marked, EMC, LVD.

Country of Origin: Canada

Order Codes

AX-GS-AQ41-00 Room Air Quality Sensor 0-10Vdc stepped & linear output
AX-GS-AQ41-00-R Room Air Quality Sensor 0-10Vdc stepped linear & relay output
AX-GS-AQ41-10 Room Air Quality Sensor 0-10Vdc stepped and linear output & LCD Display

AX-GS-AQ41-01 Room Air Quality Sensor 0-10Vdc stepped and linear output &LED AX-GS-AQ42-00 Duct Air Quality Sensor 0-10Vdc stepped & linear output

AX-GS-AQ42-00-R Duct Air Quality Sensor 0-10Vdc stepped Linear & relay output

AX-GS-AQ42-10 Duct Air Quality Sensor 0-10Vdc stepped and linear output & LCD Display

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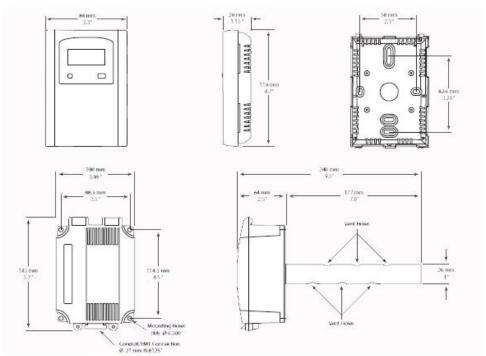
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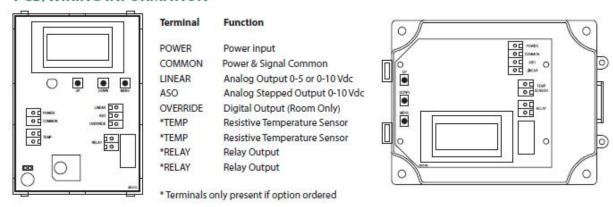
Mounting Instructions

The room sensor has mounting provisions to install directly on a standard electrical box and should be mounted at a height about five feet from the floor of the area to be controlled. For best operation, do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances.

The duct sensor should be mounted on the outside of a return air duct with the air sampling tube inserted into the duct. Mount the sensor in an easily accessible location in a straight section of duct at least five feet from corners and other items that may cause disturbances in the air flow. Avoid areas such as kitchen fume hoods where oil and grease may contaminate the sensor filter.



PCB/WIRING INFORMATION



Set Up Menus

The menus may be accessed any time after the initial five minute warm-up period. The menus are accessed with the three buttons on the circuit board labeled MENU, UP and DOWN. The Configuration Menu is used to set the operation mode, relay modes and for calibration. The standard menu controls the Analog Stepped Output (ASO). The factory hardware menu (not normally used by the customer) is also used for calibration and for setting the available hardware options. See operation manual for full explanation of the all menus and set-up procedures.

Every effort has been taken in the production of this data sheet to ensure it's accuracy. Axio can not, however, accept responsibility for any damage, expense, injury, loss or consequential loss resulting from any errors or omissions. Axio has a policy of continuous improvement and reserves the right to change this specification without notice.

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