

| OVERVIEW |

The Flamefast BACnet sensor range can be supplied with any combination of Carbon Dioxide (CO2), Temperature & Relative Humidity, and the BACnet MS/TP interface allows for the sensors to be integrated with much larger systems over a simple two wire network.

As default the three 0-10V outputs will provide a full scale linear output for the CO2, Temp & RH levels, however these analogue outputs can be rescaled or configured to be controlled over the network, negating the requirement for separate local controllers.

There is also the option to assign each of the analogue outputs to any of the sensor values, and the on board relay can be configured to activate based on CO2, Temperature or RH levels, or all can also be controlled over the network.

This cost effective and versatile sensor is ideal for any application, including natural and demand controlled ventilation systems.

| KEY FEATURES |

- 24V AC/DC Power Supply
- Pluggable terminal block
- Automatic object configuration
- 3x 0-10V outputs (Network writeable)
- Volt free contact output (Network writeable)
- Typical 10+ year life expectancy
- Self-calibrating CO2 sensor
- Flanged enclosure with hinged lid for ease of installation
- **UK MANUFACTURED**

DUCT BACNET SENSOR RANGE (DBAC) CO2, TEMP & RH (24V AC/DC)

Dimensions

Height 152mm Width 110mm Depth 50mm Probe Length 200mm

Technical Specification

Power Supply Power Consumption BACnet

Analogue Outputs VFC Output CO2 Range CO2 Output Scaling CO2 Accuracy CO2 Sensing Method CO2 Typical Sensor Life Temp Range Temp Accuracy **RH** Range **RH** Accuracy **Operating Conditions**

Sampling Method Warm-up Time **IP** Rating Housing Material Colour Approval

24V AC/DC ±10% 50mA Max MS/TP over RS485 Baud: 9k6, 19k2, 38k4 or 76k8 127 Address (1/10th Load) Full specification available on request 3x 0-10V SPST - 100mA @ 24V Max 0 - 10,000 ppm 0 - 2,000 / 5,000 ppm ±40 ppm +3% @ NTP Non Dispersive Infra-red (NDIR) 10+ Years 0 - 50°C ±0.3°C @ 25°C 0 - 100% ±2% @ 20 - 80% 0 - 50°C Temp Humidity 0 - 95% (NC) Diffusion 30 seconds IP66 (external to duct) PC/ABS Black/Clear CE, UKCA

Installer Selectable Options

CO2 Analogue output (2,000 / 5,000 ppm)

Relay set point (see below)

The unit has two user selectable programmes to control the volt free contact set point depending on the application. These are as follows:

Programme **Relay Position** Relay Set Point Ventilation Normally Open 1,000 ppm

Gas Safety

Normally Closed 4,500 ppm

Part Numbers & Options/Accessories

Part No DBAC-CO2 DBAC-CO2TH DBAC-TH

Description Duct BACnet Sensor - CO2 Duct BACnet Sensor - CO2, Temp & RH Duct BACnet Sensor - Temp & RH



GAS SAFETY Gas Proving, Detection & CO2 Monitoring