

# | OVERVIEW |

The New Flamefast Duct Refrigerant Sensor allows for accurate monitoring of a wide range of refrigerant gases from a single unit. Using highly stable infra-red technology and full temperature compensation on all gases, it can be used for detection, rather than just for alarm conditions like semi-conductor sensors.

To calibrate, only 1,000ppm R1234ze is required, thne simply select your target gas from the calibration menu. The full list of gases monitored is:

- R404a	- R407f	- R227
- R134a	- R1234yf	- R22
- R125	- R449a	- R513a
- R407a	- R507	- R422d
- R417a	- R123	- R1233zd
- R448a	- R410a	- R407c
- R32	- R452b	

With a BACnet MS/TP interface, a 0-10V and relay output, the refrigerant sensor in one of the most versatile units available, all housed in a robust duct enclosure for monitoring supply or return air systems.

## | KEY FEATURES |

- 24V AC/DC Power Supply
- Universal Refrigerant sensor
- Pre-calibrated for all gases
- Fully temperature compensated
- Traffic Light LCD readout
- BACnet MS/TP over RS485
- Latching function with Reset input
- Volt Free Contact output
- Analogue output
- Calibration and 'End of Life' reminders
- Mounts onto any standard single gang junction box or conduit box
- 200mm Duct Probe
- UK MANUFACTURED



**DUCT REF SENSOR (DFGS-REF)** BACNET, 0-10V, VFC (24V AC/DC)

### Dimensions

Height Width Depth 152mm 110mm 50mm

### **Technical Specification**

Power Supply Power Consumption BACnet

Audible Operating Conditions

Sampling Method Warm-up Time Response Time (T90) IP Rating Housing Material Colour Approval 24V AC/DC ± 10% 100mA MS/TP over RS485 Baud: 9k6, 19k2, 38k4 or 76k8 127 Address (1/10<sup>th</sup> Load) Full specification available on request 60dB @ 30cm Temp 5-40°C Humidity 0-95% (NC) Analogue Diffusion 60 Seconds (24 Hours for full stability) < 60 Seconds (Adjustable) IP66 (external to duct) PC/ABS Black/Clear CE, UKCA

### Installer Selectable Options

Gas Type LCD backlight Failsafe option

Alarm Latching Audible Alarm Auto Zero Calibration Alarm1, Alarm 2 & Relay Set-points Analogue Output Range Enable/Disable Energise/De-energise Relay 0-10V or 2-10V Enable/Disable Enable/Disable Enable/Disable

#### Part Numbers & Options/Accessories

Part No	Description	Range	Life (yr)
DFGD-REF	Duct Universal Refrigerant Sensor	2,000ppm	5

GAS SAFETY Gas Proving, Detection & CO2 Monitoring