

CO2, Temp & RH Transmitter (CO2T/RHT)



| Overview |

The Flamefast CO2, Temp & RH Transmitter offers an accurate and cost effective solution for the HVAC market, with 0-5/10V analogue outputs for CO2, Temp & RH levels. These outputs can be interfaced directly with Building Management Systems for maximum energy efficiency on any heating or ventilation system whilst maintaining the optimum indoor air quality.

This unit is also available as duct mounted for CO2 only and we offer a wall mount Temp & RH only.

With a number of installer selectable options to suit various applications, the CO2T is one of the most versatile units on the market.

| Key Features |

- 24VAC/DC Power Supply
- User selectable outputs of 0-5V or 0-10V
- Volt Free Contact output based on CO2 levels
- Typical 15 year life expectancy
- Optional LCD readout for CO2, Temp & RH levels
- Temperature displayed in °C or °F
- LED traffic light indication for CO2 levels
- Self calibrating CO2 Sensor
- User selectable CO2 range of 2000 or 5000ppm
- Wall or Duct Mount Enclosure (CO2 Only for Duct Mount)
- Mounts onto any standard single gang junction box
- Can be powered from and Interface directly with any GasGuard system
- **UK MANUFACTURED**

Dimensions

	Wall Mount	Duct Mount
Height	119 mm	125 mm
Width	92 mm	175 mm
Depth	35 mm	82 mm + 193 mm Probe

Wall Mount

Duct Mount

Installer Selectable Options

- LED - Enable / Disable
- Analogue Output 0-5V or 0-10V
- CO2 Output Range - 2,000 / 5,000ppm
- Temp display in °C / °F
- LED & VFC position/set point

Technical Specification

Power Supply	24V ±10% AC/DC
Power Consumption	50mA
Outputs	CO2 - 0-5/10V Temp - 0-5/10V / Thermistor RH - 0-5/10V VFC - 24V 1A Max
CO2 Range (Selectable)	2,000 / 5,000ppm
CO2 Accuracy	±50ppm ±3% @ NTP
Response Time	<3 Minutes
Temperature Range	0°C to 50°C
Temperature Accuracy	±0.3°C @ 25 °C
Relative Humidity Range	0 to 100%
Relative Humidity Accuracy	±2%
Operating Conditions	0°C to 50°C 0 to 95% Humidity (NC)
Sensor Type	Solid State NDIR
Typical Sensor Life (CO2)	15 Years
Warm-up Time	<1 minute
Approval	CE

The CO2T has four user selectable programmes to control the Volt Free Contact and LED behaviour. These are as follows;

Program	1	2	3	4
Green - Yellow	1000	1000	1500	1500
Yellow - Red	1500	1500	2800	2800
Relay Position	N/O	N/O	N/C	N/C
Relay Set Point	1000	1500	4500	2800

Part Numbers & Options/Accessories

Part No	Description
CO2T	CO2 Transmitter
CO2T-H	CO2, Temp & RH Transmitter
CO2T-P	CO2 Transmitter c/w Thermistor (Please Specify Type)
RHT	Temp & RH Transmitter
-L	Adds an LCD to any of the above.
CO2T-D	Duct Mounted CO2 Transmitter