

# TRANSMITTER RANGE (TR)

## CO<sub>2</sub>, TEMP & RH (24V AC/DC)



### | OVERVIEW |

The Flamefast Transmitter range can be supplied with any combination of Carbon Dioxide (CO<sub>2</sub>), Temperature & Relative Humidity. With three 0-10V outputs, an on board relay and the ability to select between Analogue or Thermistor temperature output, our transmitter range is one of the most versatile units available.

With the optional signature Flamefast traffic light display, the sensor can provide a clear, bold indication of the air quality in the monitored space.

This cost effective sensor range is ideal for any application, including natural and demand controlled ventilation as well as for integrating with our range of gas safety systems.

### | KEY FEATURES |

- 24V AC/DC Power Supply
- Pluggable terminal block for ease of installation
- Optional traffic light readout
- 3x 0-10V outputs
- Selectable Temperature output (0-10V or 10K3)
- Volt free contact output
- Typical 10+ year life expectancy
- Self-calibrating CO<sub>2</sub> sensor
- Mounts onto any standard single gang junction box or conduit box
- **UK MANUFACTURED**

### Dimensions

Height 125mm | Width 86mm | Depth 36mm

### Technical Specification

Power Supply	24V AC/DC $\pm 10\%$
Power Consumption	50mA Max
Analogue Outputs	3x 0-10V
Thermistor Output	10K3A1
VFC Output	SPST - 100Ma @ 24V Max
CO <sub>2</sub> Range	0 - 2,000 ppm
CO <sub>2</sub> Accuracy	$\pm 40$ ppm +3% @ NTP
CO <sub>2</sub> Display Resolution	1ppm
CO <sub>2</sub> Sensing Method	Non Dispersive Infra-red (NDIR)
CO <sub>2</sub> Typical Sensor Life	10+ Years
Temp Range	0 - 50°C
Temp Accuracy	$\pm 0.3^\circ\text{C}$ @ 25°C
Temp Display Resolution	0.1°C
RH Range	0 - 100%
RH Accuracy	$\pm 2\%$ @ 20 - 80%
RH Display Resolution	0.1%
Operating Conditions	Temp 0 - 50°C Humidity 0 - 95% (NC)
Sampling Method	Diffusion
Warm-up Time	30 seconds
IP Rating	IP40
Housing Material	PC/ABS
Colour	Pure White (RAL9010)
Approval	CE, UKCA

### Installer Selectable Options

- 0-10V or Thermistor Temp output (only one used at any time)
- Traffic light and relay set points (see below)

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

Programme	Ventilation	Gas Safety
Green - Yellow	1,000 ppm	1,500 ppm
Yellow - Red	1,500 ppm	2,800 ppm
Relay Position	Normally Open	Normally Closed
Relay Set Point	1,000 ppm	4,500 ppm

### Part Numbers & Options/Accessories

Part No	Description
TR-CO2T	Transmitter - CO <sub>2</sub> & Temp
TR-CO2TH	Transmitter - CO <sub>2</sub> , Temp & RH
TR-TH	Transmitter - Temp & RH
TR-T	Transmitter - Temp
TR-CO2TL	Transmitter - CO <sub>2</sub> & Temp c/w LCD
TR-CO2THL	Transmitter - CO <sub>2</sub> , Temp & RH c/w LCD
TR-THL	Transmitter - Temp & RH c/w LCD
TR-TL	Transmitter - Temp c/w LCD