


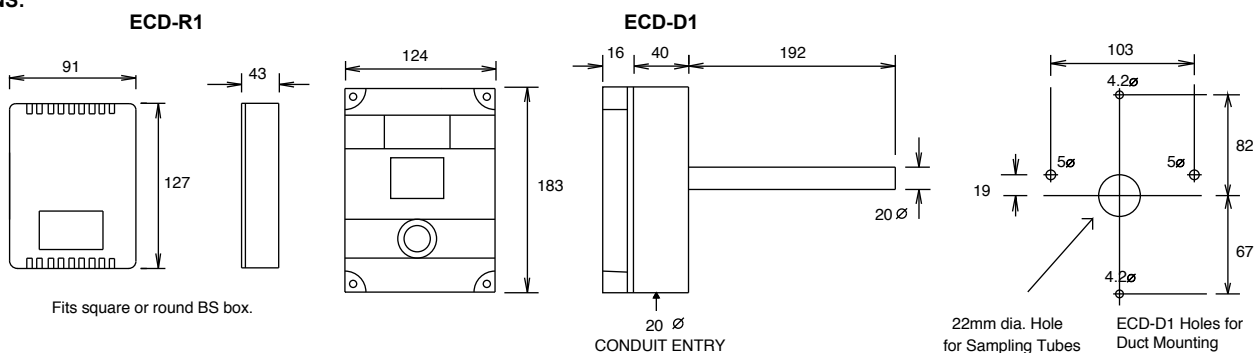
CARBON DIOXIDE TRANSMITTER

0-10VDC / 4-20mA

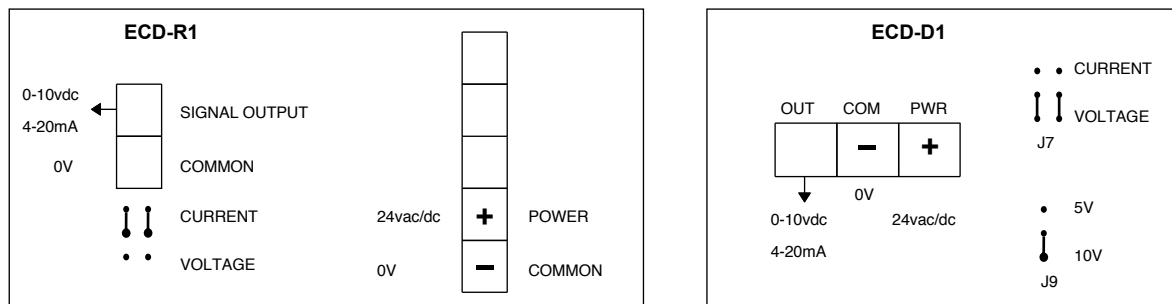
ECD..

<p>These devices detect the presence of Carbon Dioxide ONLY and give a 0-10vdc or 4-20mA output signal linear across the range. Suitable for use in clean areas such as no-smoking rooms, theatres, conference rooms etc.</p>		<p>Sensing element : Non-dispersive Infra Red. Repeatability ± 20ppm Sensor Accuracy 0-2000ppm ± 75ppm Response time @ 500ml/min flow rate <60s to 90% of step change Calibration interval 3 years dependant on conditions. Output impedance min 10kΩ vdc / 550Ω max mA Enclosure Flammability = UL94-HB</p>						
Type	Mounting	Range PPM	Supply $\pm 15\%$	Output Selectable	Consumption Max	Media Temp $^{\circ}$ C	Media Humidity %RH	Enclosure
ECD-R1	Room	0-2000	24VAC/DC	0-10vdc/4-20mA	80mA	0/50	5/95	IP30
ECD-D1	Duct	0-2000	24VAC/DC	0-10vdc/4-20mA	80mA	0/50	5/95	IP65

DIMENSIONS:



WIRING:



INSTALLATION:

ECD-R1 Install in a clean environment in an area with good air movement. Mounting height 1.5 - 2m
 Avoid areas of localised heat, windows, doors etc
ENSURE VENT HOLES ARE FACING DOWN.

ECD-D1 Install in a clean environment in the return air duct.
 Position the unit away from heat sources.
 The holes in the tubes should face parallel to the air flow.
 The direction of air flow can be reversed.

Min sensor cable size 7/0.2mm
 Screened cable is recommended.

Max length 100m.

The screen should be earthed at controller end only
 Keep sensor wires away from power cables/units which may cause interference

OPERATION : Apply power to the unit. Allow up to 120 seconds warm-up time. The internal chamber light will flash. The sensor will update the output signal at 5 second intervals. Ambient reading typically 2-4vdc or 7-11mA, breathing directly on the sensor will cause the output to read 10vdc or 20mA

GUIDE:

