

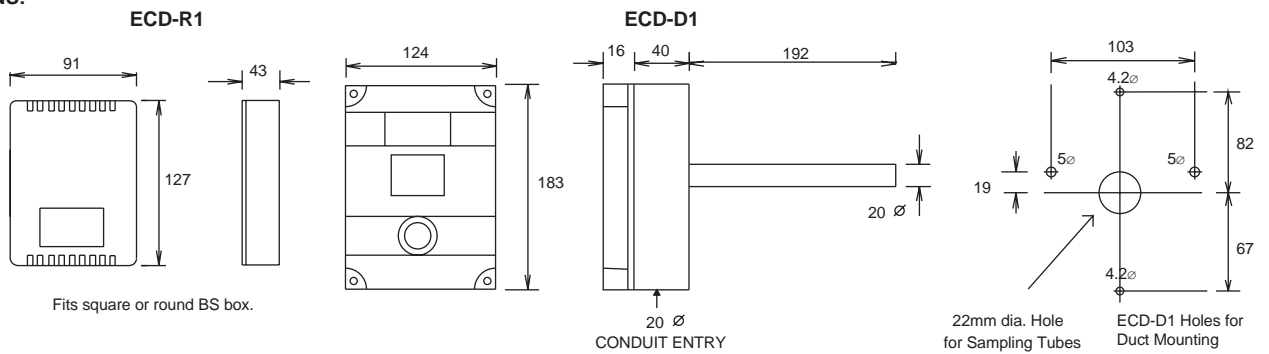
# CARBON DIOXIDE TRANSMITTER 0-10VDC / 4-20mA

ECD..

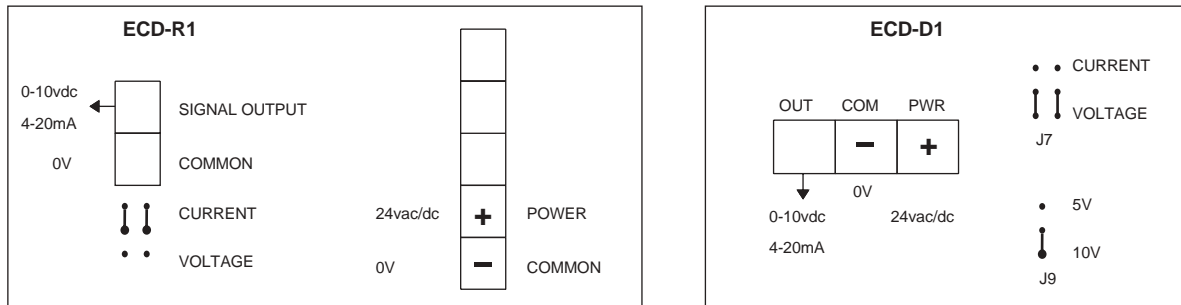
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|---|--|---|
| <p>These devices detect the presence of Carbon Dioxide ONLY and give a 0-10vdc or 4-20mA output signal linear across the range. Suitable for use in clean areas such as no-smoking rooms, theatres, conference rooms etc.</p> |  | <p>Sensing element : Non-dispersive Infra Red.<br/>                 Repeatability ±20ppm<br/>                 Sensor Accuracy 0-2000ppm ±75ppm<br/>                 Response time @ 500ml/min flow rate &lt;60s to 90% of step change<br/>                 Calibration interval 3 years dependant on conditions.<br/>                 Output impedance min 10kΩ vdc / 550Ω max mA<br/>                 Enclosure Flammability = UL94-HB</p> |
|---|--|---|

| Type   | Mounting | Range PPM | Supply ±15% | Output Selectable | Consumption Max | Media Temp °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.

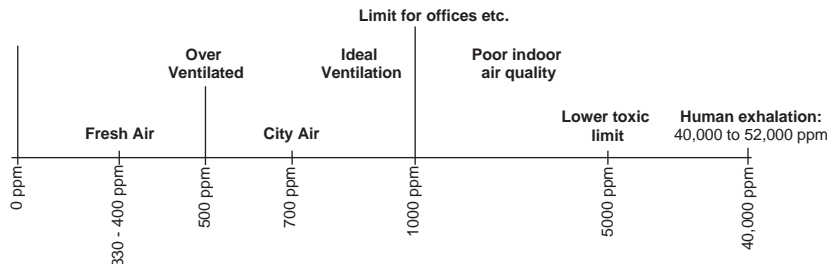
Min sensor cable size 7/0.2mm  
 Screened cable is recommended.

Max length 100m.

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:**



**CAUTION:**

These devices are suitable for low voltage supply only. Isolate device from electrical supply before removing cover. Observe precautions for handling electrostatic sensitive devices, Always ensure the device operates correctly. If failure of the device can cause damage a safety backup control should be fitted. All data is for guidance purposes only, subject to change without prior notice and not guaranteed to be absolutely correct unless confirmed by us in writing.

Device should be checked by a qualified technician before applying any voltage. Observe all relevant safety precautions, wiring/earthing regulations and electrical ratings. Ensure electrical entry hole is completely sealed for all IP65/weatherproof models.

