



Space Mounting Carbon Dioxide Sensor

0/10Vdc output

RCO2

Description:

This self-calibrating microprocessor-controlled CO₂ measuring instrument is used for the detection of CO₂ content in air within a range of 0 ppm to 2000 ppm CO₂.

Measuring signals are converted into standard signals of 0 – 10V.

The CO₂ content of air is determined by a NDIR sensor.

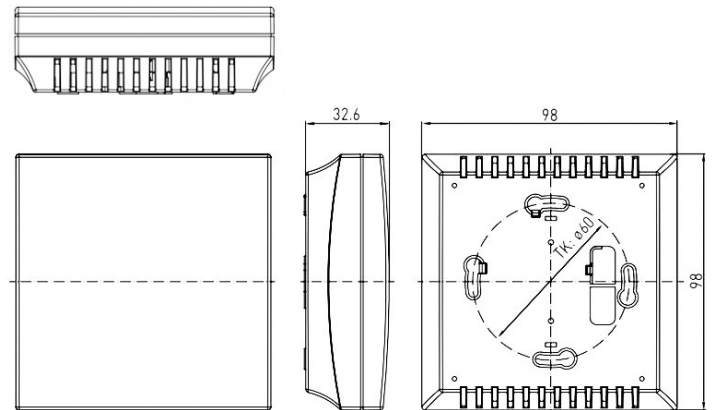
Self-calibration of the CO₂ measurement takes place in cycles of 7 days. In order to ensure this function, the device must be exposed to fresh air (CO₂ content 300...400ppm) at least once every 7 days.



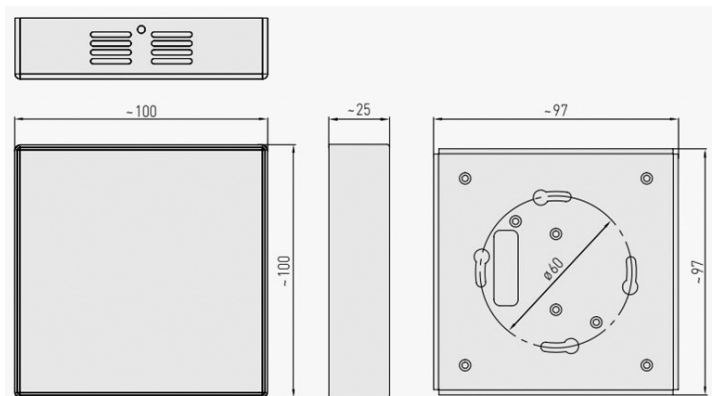
Technical Specification:

Power Supply:	24V AC / DC
Power Consumption:	< 3VA @ 24V DC
Sensor:	Optical NDIR sensor, (non-dispersive infra-red technology) dual-beam measuring system with automatic calibration.
Measuring Range:	0...2000ppm
Output:	0 – 10V
Measuring Accuracy:	± 70ppm plus 5% of measured value
Pressure Dependence:	± 1.6% / kPa (referred to standard pressure)
Long-term Stability:	± 1% of final value per year
Gas Exchange:	By diffusion
Warm-up Time:	Approx. 1 hour
Ambient Temperature:	+5...+40°C
Response Time:	Approx. 1 minute
Electrical Connection:	0.14 – 1.5mm ² , via screw terminals
Enclosure:	Plastic, material ABS, colour pure white (similar to RAL 9010), stainless steel enclosure optional to order
Dimensions:	98 x 98 x 33mm (Baldur 2) 100 x 100 x 25mm (Stainless Steel enclosure)
Installation:	Wall mounting or on in-wall flush box, Ø55mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes for cable entry from the back, with predetermined breaking point for on-wall cable entry from top / bottom in case of plain on-wall installation.
Protection Class:	III (according to EN 60730)
Protection Type:	IP30 (according to EN 60529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61 326, EMC Directive 2014 / 30 / EU, Low Voltage Directive 2014 / 35 / EU

Dimensions for Baldur 2 Enclosure:



Dimensions for Stainless Steel Enclosure:



Order Code:

RCO2

Space Mounting Carbon Dioxide Sensor
0/10Vdc Output

EC Products Limited

EC House, Amberley Way, Hounslow,
Middlesex. TW4 6BH. United Kingdom
Tel:+44 (0)20 8569 4100 Fax: +44 (0)20 8569 4111

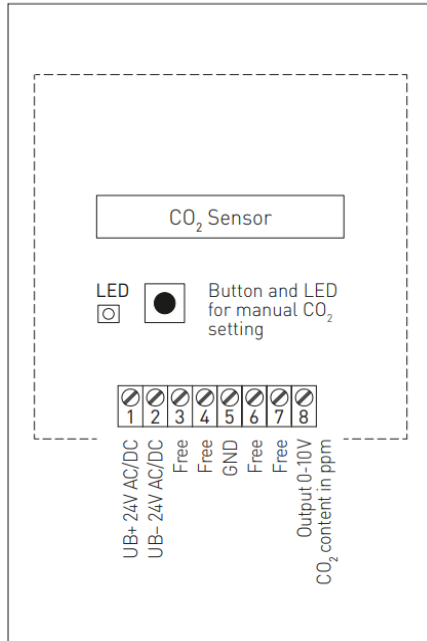


Space Mounting Carbon Dioxide Sensor

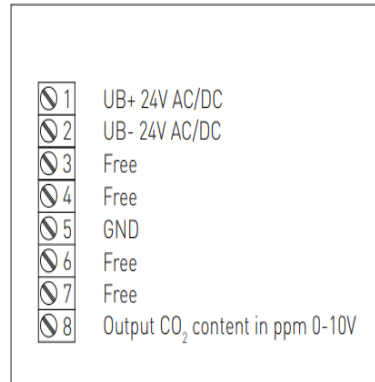
0/10Vdc output

RCO2

Schematic Diagram:



Connecting Diagram:



EC Products Limited

EC House, Amberley Way, Hounslow,
Middlesex. TW4 6BH. United Kingdom
Tel:+44 (0)20 8569 4100 Fax: +44 (0)20 8569 4111