k·con ®

Kooltech Bespoke Solutions

LOSSNAY CO_2 CONTROL PACKAGE

Kooltech supply a range of standalone CO_2 sensors that can be used to accurately detect the presence of carbon dioxide within a room. Manufactured to the highest standard, the sensor can adjust the Lossnay speed to suit the number of people within a space and therefore improve the efficiency of an already proficient Lossnay system. By adjusting the speed of the Lossnay, the system will provide a cost-saving over a 12-month period.

KS-BA CO_2 Room Sensor

Power:
12 to 24 VDC, 240 mA
18 to 24 VAC, 12 VA Peak

CO_2 Sensing Elements:
Single Channel or Dual Channel Non-Dispersive Infrared (NDIR)

Field Selectable Voltage Output:
0 to 5 or 0 to 10 VDC Termination: 3 Terminals, 16 to 22 AWG

Operating Environment:
0 to 50°C
0 to 95%RH non-condensing

Enclosure Material:
ABS Plastic, Material Rated UL94V-O

CO_2 Detection Range:
0 to 2,000, 0 to 5,000, 0 to 10,000 and 0 to 50,000 Start-Up Time: <2 Minutes

Response Time: <2 Minutes for 90% step change typical (after start-up)

Mounting: Junction Box or drywall – screws provided

CO_2 Accuracy (Single Channel Units):
400 to 1,250 ppm: ±30ppm or 3% of reading, whichever is greater 1,250 to 2,000 ppm: ±5% of reading + 30ppm

CO_2 Accuracy (Dual Channel "24/7" Units):
75ppm or 10% of reading (whichever is greater)

CO_2 Drift Stability (Dual Channel "24/7" Units):
<5% of full scale over life of product.

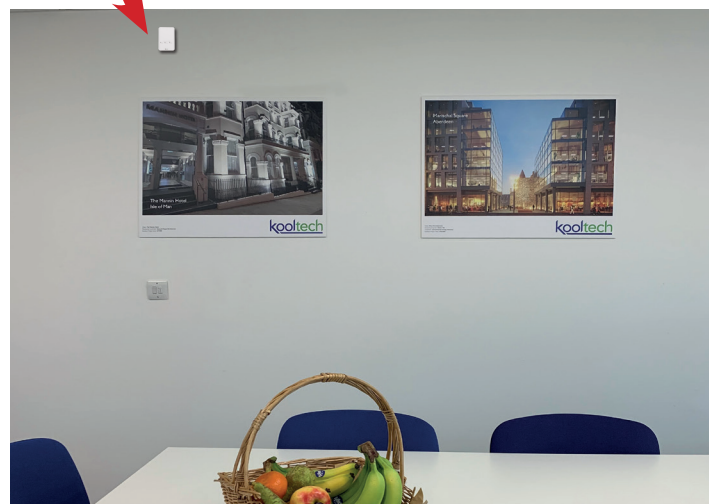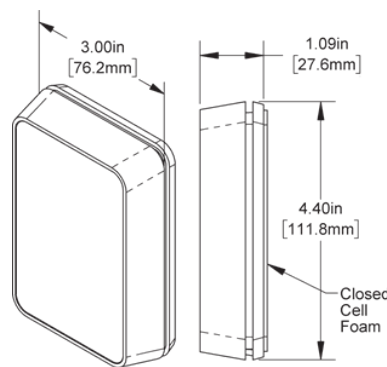**LED CO_2 Level Indicator**
(for 0 to 2.000 PPM units only): Good, Green < 1,000 PPM
Fair, Yellow = 1,000 to 1,500 PPM
Poor, Red > 1,500 PPM

Certifications: RoHS

Warranty Period: 5 Years

Model	Description	Dimensions (L x W x H)	K-con Code
KS-BA/AQX-D	CO_2 Lossnay Control Package 0-10V	111.8 x 76.2 x 27.6mm	10100366

ENGINEERED AND MANUFACTURED IN THE UK BY

kooltech

KS-BA CO_2 Duct and Harsh Environment Sensors

The KS-BA CO_2 Duct and Harsh Environment Sensor is an accurate and reliable way of incorporating demand-controlled ventilation for Mitsubishi Lossnay units. The Duct unit samples duct air using an aspiration tube. The Harsh Environment unit features a ventilated BAPI-Box and is ideal for areas such as outdoor air plenums, equipment rooms, green houses and warehouses. The CO_2 level is indicated as "Good, Fair or Poor" by three LED's on the front of the unit.

Power:
12 to 24 VDC, 240 mA
18 to 24 VAC, 12 VA Peak

Field Selectable Voltage Output: 0 to 5 VDC

Termination: 3 Terminals, 16 to 22 AWG

Operating Environment:
0 to 50°C
0 to 95%RH non-condensing

Enclosure Rating:
Unventilated BAPI-Box: IP66

Encl. Material: Polycarbonate, UL94 V-O

CO_2 Detection PPM Range: 0 to 2,000 Start-Up Time: <2 Minutes
Response Time: <2 Minutes for 90% step change typical (after start-up)

LED CO_2 Level Indicator
Good, Green < 1,000 PPM
Fair, Yellow = 1,000 to 1,500 PPM Poor, Red > 1,500 PPM

CO_2 Sensing Elements:
ACD: Single Channel Non-Dispersive Infrared DCD: Dual Channel Non-Dispersive Infrared

CO_2 Drift Stability (DCD "24/7" Units):
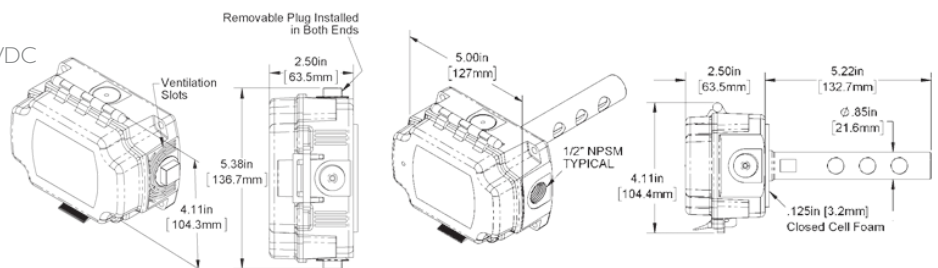<5% of full scale over life of product.

CO_2 Accuracy (DCD Units):
75ppm or 10% of reading (whichever is greater)

CO_2 Accuracy (ACD Units):
400 to 1,250 ppm: ±30ppm or 3% of reading, whichever is greater 1,250 to 2,000 ppm: ±5% of reading + 30ppm Certifications: RoHS

Warranty Period: 5 Years

Harsh Environment Sensor

Duct Sensor

Model	Description	Dimensions	K-con Code
KS-BA/DCD10-D-BB	CO_2 Duct Mounted Control Sensor 0-10V	127 x 104.4 x 63.5mm Probe 132.7mm	10100367
KS-BA/DCD10-V-BB	CO_2 Harsh Env Duct Control Sensor 0-10V	127 x 104.3 x 63.5mm Probe 132.7mm	10100368

ENGINEERED AND MANUFACTURED IN THE UK BY

kooltech

SCOTLAND PROJECTS
Tel: 0345 034 4181
Email: scotlandprojects@kooltech.co.uk

NORTHERN PROJECTS
Tel: 0345 034 4182
Email: northernprojects@kooltech.co.uk

SOUTHERN PROJECTS
Tel: 0345 034 4183
Email: southernprojects@kooltech.co.uk