EDINBURGH SENSORS

AirCheck™

for demand control ventilation

- **Conference Rooms**
- **School Classrooms**
- **Restaurants**
- **Stores / Retail**
- **Health Clubs**
- **Theatres**
- **Waiting Rooms**

INTRODUCTION

The **AirCheck™** range of sensors employs high reliability infra red absorption technology to detect carbon dioxide. This measurement technique offers high selectivity, fast response and immunity from poisoning.

LOW MAINTENANCE

The sensor design uses no moving parts, which increases the reliability of the sensor to mechanical failures. IR technology is non-consumable and does not require regular replacement of sensors.

QUALITY

Each **AirCheck™** is supplied fully tested and calibrated with a 2 year warranty against defective parts and workmanship.

THE BENEFITS OF USING

In most cases, buildings are designed to continuously provide enough fresh air to all spaces in the building assuming that it is fully occupied at all times. CO_2 demand control ventilation allows the building owner to save energy by only ventilating for the number of people in the building. Energy saving paybacks can range from two years to a few months, depending on the application.

CO_2 demand control means that the optimum air quality condition can be maintained at all times to ensure the health, productivity and well being of the building occupants.

ISO 9002 SGS

Infra red Inside

AirCheck™

AirCheck™

Technical Data

CO_2 Measuring Range (by volume)	2000 ppm
Accuracy	± 75 ppm
Repeatability	< ± 40 ppm
Long term stability	± 100 ppm per 3 year
Response Time	< 60 s
Thermal Drift	< 4 ppm / ^{o}C
Output Signals	4 to 20 mA and 0 to 10 V
Power Supply	24 V AC / V DC (16 to 30 V DC)
Power Consumption	< 3.0 W
Warm-up Time	< 30 mins
Operating Temperature Range	+ 10 to 35 ^{o}C
Humidity	5 - 100 % RH
Dimensions	82 x 150 x 30 mm
Weight	165 g
Warranty	2 year
Options	Duct Mounted Version OEM Board

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