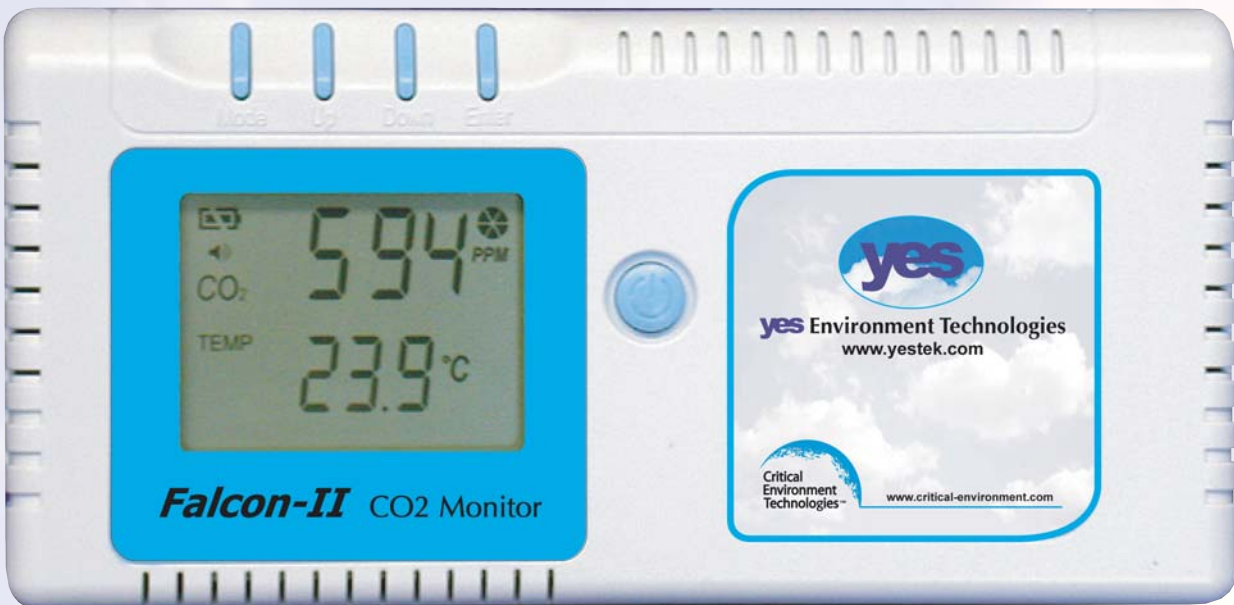


Falcon-II

Economical Air Quality Monitor



Measures CO2 and Temperature
Accurate and Reliable
Lightweight
Easy to Use
Large LCD Display
Audible Alarm



yes Environment Technologies



HAZARDOUS GAS DETECTION

Economical Air Quality Monitor

The Falcon-II is a reliable, accurate air quality monitor for temperature and Carbon Dioxide that is also very economical. The large, easy to read LCD display indicates the measured values for each parameter as well as battery status and other information. The instrument will operate on four AA batteries or continuously from the supplied wall adapter.

SPECIFICATIONS

Dimensions: 25 x 81 x 165 mm (1 x 3.2 x 6.5 inches)

Weight: 274 grams (9.7 oz) including batteries

Operating Temperature: 0 - 50 deg C (32 - 122 deg F) 0 - 95% RH, non-condensing

Power:

Battery type: Alkaline, AA X 4 (80 hours)

External: 6 VDC from external AC/DC adapter which is included in package

Outputs: Normally Low, 100mA max. @ 24 VDC. Adjustable set-point, factory setting is 1000ppm, hysteresis is 50ppm.

Sample Method: Diffusion or flow through (50 ~200 ml/min)

Warranty: 18-months parts & labour (when returned to factory prepaid freight)

Certifications: CE

Sensors: CO₂ (Carbon Dioxide): NDIR (Non-Dispersive Infrared)

Temperature:

CO₂ SENSOR - NDIR DESCRIPTION

Measurement Range 0 - 10,000 ppm

Display Resolution 1 ppm at 0~1,000 ppm; 5 ppm at 1,000~2,000 ppm; 10 ppm at 2,000~4,000 ppm,
20 ppm at 4,000~6,000 ppm, 40 ppm at 6,000~10,000 ppm

Accuracy – 50 ppm or – 5% of reading

Repeatability – 20 ppm

Temperature Dependence – 0.1% of reading per deg C or – 2 ppm per deg C, whichever is greater, referenced to 25 deg C

Pressure Dependence 0.13% of reading per mm Hg (Corrected via user input for altitude)

Response Time <2 min for 63% of step change

Warm-Up Time <60 seconds at 22 C

Calibration Interval 12 months, offset adjustment using single gas at 0-1000 ppm CO₂. Full factory calibration available

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