

FALCON-II SPECIFICATIONS, Rev-A November 2009

Dimensions:	24.3×81.1×165 mm (0.96×3.19×6.50 inch)
Weight:	273.6 grams(9.65 oz), including batteries
General Operating Conditions:	Operating Temperature: 32-122°F (0-50°C) 0-95% RH, non-condensing Storage Temperature: -4 to 140°F (-20 to 60°C))
Power:	Two power supply types: Battery type: Alkaline, AA X 4 (80 hours) External: 6 VDC from external AC/DC adapter which is included in package Power Requirement: 160 mA Peak, 15 mA average from 6V
Outputs:	Normally Low,100mA max. @ 24 VDC. Adjustable set-point, factory setting is 1000ppm, hysteresis is 50ppm. One RJ-45 Connector
Sample Method:	Diffusion or flow through (50 ~200 ml/min)
Warranty:	18-months parts & labour (when returned to factory prepaid freight)
Display:	LCD: Independent CO2 & Temperature readings. Calculates & displays ventilation rates
Certifications:	CE
Sensors:	CO2 (Carbon Dioxide): NDIR (Non-Dispersive Infrared), Temperature:

CO2 SENSOR - NDIR	DESCRIPTION
Measurement Range	0 - 10,000 ppm
Display Resolution	1ppm at 0~1,000ppm; 5ppm at 1,000~2,000ppm; 10ppm at 2,000~4,000ppm, 20ppm at 4,000~6,000ppm, 40ppm at 6,000~10,000ppm
Accuracy	±50 ppm or ±5% of reading
Repeatability	±20 ppm
Temperature Dependence	±0.1% of reading per °C or ±2 ppm per °C, whichever is greater, referenced to 25°C
Pressure Dependence	0.13% of reading per mm Hg (Corrected via user input for altitude)
Response Time	<2min 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

TEMPERATURE SENSOR	DESCRIPTION
Temperature Range	Display 32 to 122°F (0 to 50°C)
Display Resolution	0.1 °F (0.1 °C)
Display Options	°F / °C, or Off. Set with Up / Down button
Accuracy	±2°F (±1 °C)
Response Time	20-30 minutes (case must equilibrate with environment)

