



E3-CO2-1000ppm

NDIR Dual Channel Carbon Dioxide gas detector

Product highlights

Reference I.R. Channel for long-term measures
1000ppm concentration range

Easy to integrate in OEM systems

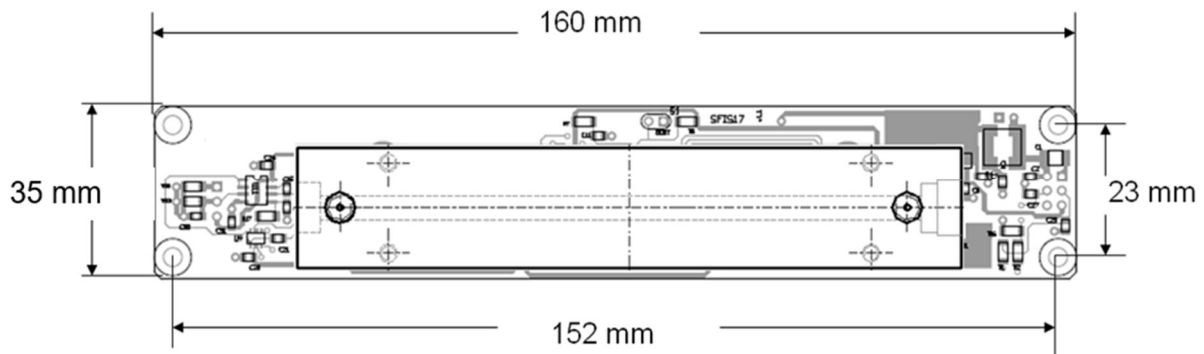
Application

Industrial Emission Control

Medical Applications

Environmental Monitoring

Mechanical drawing



Operative Data

Sensor type	Dual channel NDIR detector (E-series)
Detected gas	CO ₂ (carbon dioxide)
Measuring range	0 - 1000 ppm
Operating temperature range	0 ÷ 55 °C (non-condensing)
Storage temperature range	-20 ÷ 85 °C
Operating humidity range	0 ÷ 90 % (non-condensing)
Gas supply	Flowing (nearly atmospheric pressure)
Flow rate	100 ÷ 400 sccm
Warm-up time	< 60 s (start-up time) < 30 minutes (full specification)

Mechanical & Electrical Specifications

Dimension (L x W x H)	160mm x 35mm x 40mm
Weight	155 g
Gas connector	Rapid fitting for 3mm o.d. tubing
Voltage supply	5V ± 10%
Current consumption	120mA (rms) – 250mA (peak)
Signal Output	0-3.3V
Communication Interface	UART (Baud-rate: 9600-115200) ¹

¹ ASCII Protocol described in the E-series user manual. Default baud-rate is 9600.

Measuring Specifications

Data rate	1/s
Response time T90 (0 – 90 %)	2 s
Resolution	1 ppm
Repeatability	± 2 ppm
Lower Detection Limit (LDL)	2 ppm
Temperature drift	Contact Factory
Humidity drift	None
Long-term stability	Contact Factory
Cross-sensitivity	Contact Factory