



LV6-CH4-3000ppm

Fast NIDR Single Channel Methane detector

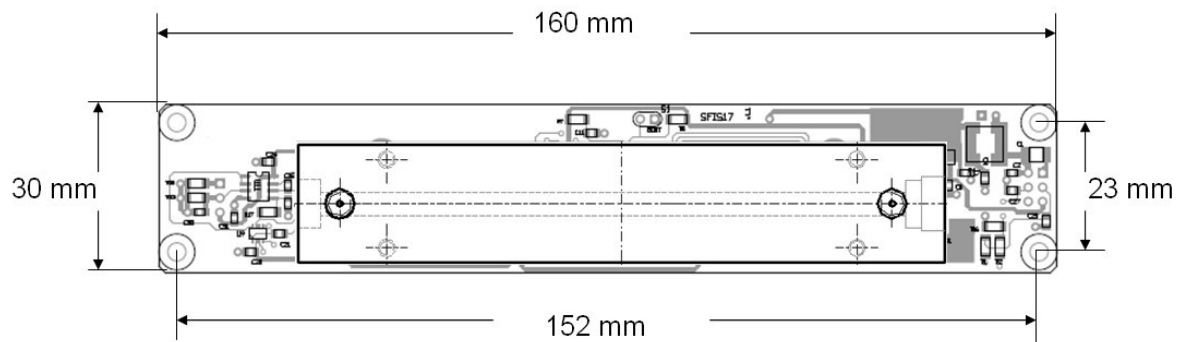
Product highlights

- 0-3000ppm concentration range
- High speed dynamic measurements
- Easy to integrate in o.e.m. systems

Application

- Dynamic gas measurements
- Pulmonary function testing

Mechanical drawing



Operative Data

Sensor type	Single channel NDIR detector (LV-series)
Detected gas	CH ₄ (Methane)
Measuring range	0 – 3000 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 30mm x 40mm
Weight	155 g
Gas connector	Rapid fitting for 3mm o.d. tubing
Voltage supply	5V ± 10%
Current consumption	180mA (rms) – 250mA (peak)
Signal Output	0-3.3V
Communication Interface	UART (Baud-rate: 9600-115200) ¹

¹ ASCII Protocol described in the LS-series user manual. Default baud-rate is 19200.

Measuring Specifications

Data rate	18/s
Response time T90 (0 – 90 %)	<150 ms
Resolution	10 ppm
Repeatability	± 30 ppm
Lower Detection Limit (LDL)	50 ppm
H2O vapor influence	None
Cross-sensitivity	Other HC (contact factory)