LS5-HCFC-Refrigerants-100g/y

High sensitivity NDIR Single Channel HCFC Refrigerant Gas detector

Product highlights

0-99.9 g/y leak rate range

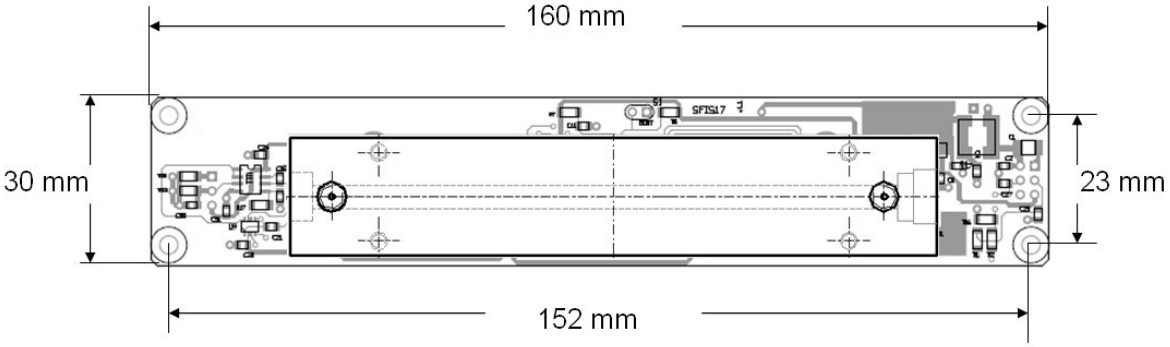
Single channel detector for highest sensitivity

Easy to integrate in OEM systems

Applications

HVAC leak detection

Mechanical drawing



Operative Data

Sensor type	Single channel NDIR detector (LS-series)
Detected gas	HCFC Refrigerants
Measuring range	0 ÷ 99.9 g/y
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	120 sccm (for a correct leak rate measure)
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	110mA (rms) – 220mA (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 9600.

Measuring Specifications

Data rate	2/s
Response time T90 (0 – 90 %)	1 s
Resolution	0.1 g/y
Repeatability	± 0.2 g/y on R134, R404 ± 0.3 g/y on R407, R410, R22
Lower Detection Limit (LDL)	0.2 g/y on R404 0.3 g/y on R134 0.4 g/y on R407,R22 0.5 g/y on R410
H2O vapor influence	None
Cross-sensitivity	Other refrigerant gases (contact factory)