



## E7-NH3-1000ppm

NDIR Dual Channel Ammonia detector

### Product highlights

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

Easy to integrate in OEM systems

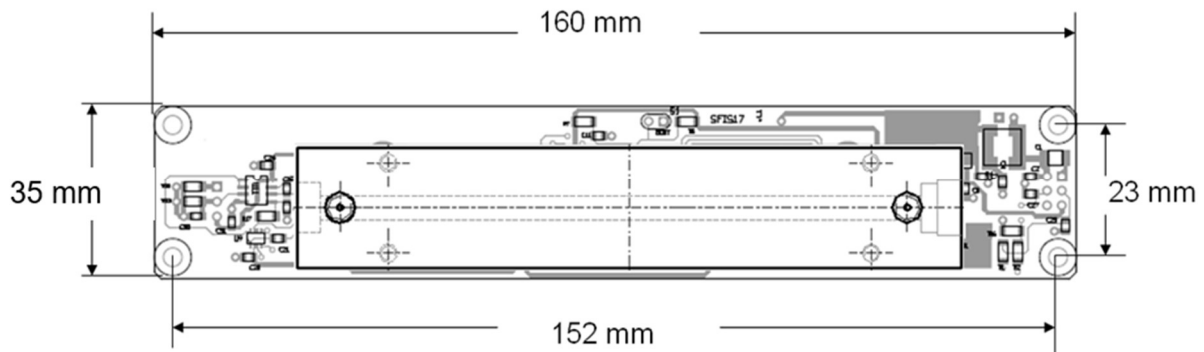
### Application

Industrial Emission Control

Medical Applications

Environmental Monitoring

## Mechanical drawing



## Operative Data

<b>Sensor type</b>	Dual channel NDIR detector (E-series)
<b>Detected gas</b>	NH <sub>3</sub> (Ammonia)
<b>Measuring range</b>	0 - 1000 ppm
<b>Operating temperature range</b>	0 ÷ 55 °C (non-condensing)
<b>Storage temperature range</b>	-20 ÷ 85 °C
<b>Operating humidity range</b>	0 ÷ 90 % (non-condensing)
<b>Gas supply</b>	Flowing (nearly atmospheric pressure)
<b>Flow rate</b>	100 ÷ 400 sccm
<b>Warm-up time</b>	< 60 s (start-up time) < 30 minutes (full specification)

## Mechanical & Electrical Specifications

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

<sup>1</sup> 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	± 10 ppm
Lower Detection Limit (LDL)	30 ppm
Temperature drift	2.8 ppm/°C
Humidity drift	None
Long-term stability	± 20 ppm/month
Cross-sensitivity	Contact Factory