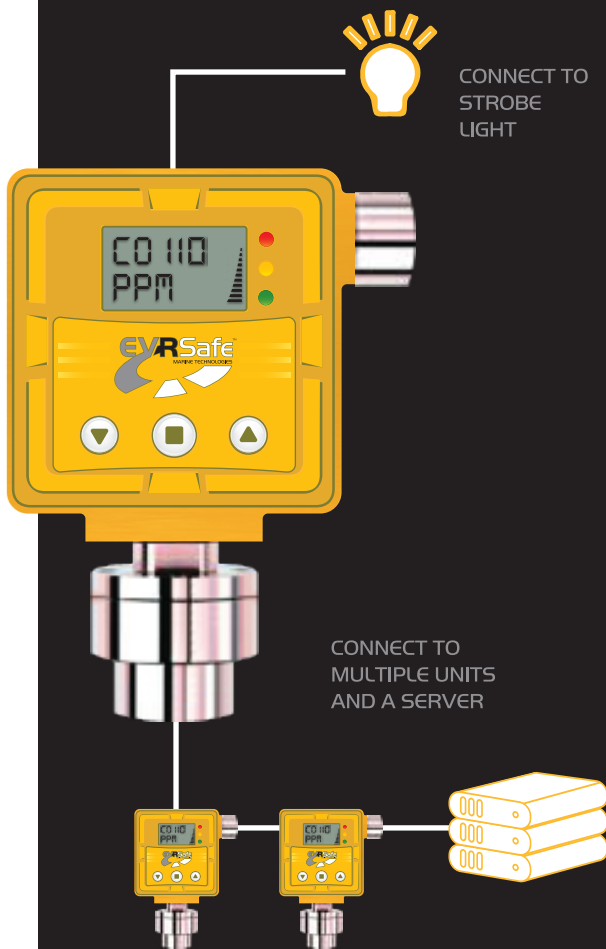




NO<sub>2</sub>-DI

# Nitrogen Dioxide

## TECHNICAL SPECIFICATIONS



### PERFORMANCE

Sensitivity	nA/ppm in 10ppm NO <sub>2</sub>	-300 to -230
Response time	t <sub>90</sub> (s) from zero to 10ppm NO <sub>2</sub> %20°C (10Ω load)	<30
Zero current	ppm equivalent in zero air	± 0.35
Resolution	RMS noise (ppm equivalent, 10Ω load)	0.2
Range	ppm H <sub>2</sub> S limit of performance warranty	100
Linearity	ppm error at full scale, linear at zero and 10ppm NO <sub>2</sub>	± 0.5
Overgas limit	maximum ppm for stable response to gas pulse	

### LIFETIME

Zero drift	ppm equivalent change/month in lab air	n/d
Sensitivity drift	% change/month in lab air, twice monthly test	n/d
Operating life	months until 80% original signal (24 month warranted)	>24

### ENVIRONMENTAL

Sensitivity @ -20°C	% (output @ -20°C/output @ 20°C) @ 10ppm	82 to 90
Sensitivity @ 50°C	% (output @ 50°C/output @ 20°C) @ 10ppm	100 to 104
Zero @ -20°C	ppm equivalent	-0.4 to 0.4
Zero @ 50°C	ppm equivalent	0 to 0.5

### KEY SPECIFICATIONS

Temperature range	°C	-20 to 50
Pressure range	kPa	80 to 120
Humidity range	% rh (see note below)	15 to 90
Storage period	months @ 3 to 20°C (stored in sealed pot)	6
Load resistor	Ω (recommended)	10 to 100
Weight	g	<1.5

NOTE: All sensors tested and stored at ambient environments unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.