

## 5S MK III

### Sensor Specifications:

Gas detected: Carbon dioxide  
 Mode of operation: Infra-red  
 Range:

Sensor range	Basic accuracy	Tempco
1000ppm	±25ppm CO <sub>2</sub> ±1% of reading	±2.5ppm CO <sub>2</sub> /°C
5000ppm	±25ppm CO <sub>2</sub> ±1% of reading	±2.5ppm CO <sub>2</sub> /°C
10,000ppm (1%)	±50ppm CO <sub>2</sub> ±1% of reading	±5ppm CO <sub>2</sub> /°C
2%	±0.02% CO <sub>2</sub> ±2% of reading	±0.002% CO <sub>2</sub> /°C
5%	±0.05% CO <sub>2</sub> ±2% of reading	±0.005% CO <sub>2</sub> /°C
10%	±0.1% CO <sub>2</sub> ±2% of reading	±0.01% CO <sub>2</sub> /°C
20%	±0.2% CO <sub>2</sub> ±2% of reading	±0.02% CO <sub>2</sub> /°C
100%	±1% CO <sub>2</sub> ±2% of reading	±0.1% CO <sub>2</sub> /°C

Response time: T90 in <30 seconds  
 Warm up time: 40 seconds  
 Outputs: 0 to 2VDC into load of >1000 Ohms  
 4 to 20mA into load of <400 Ohms  
 Flow rate: 0.3 to 2l/min  
 Power supply: 8 to 36V  
 Temperature range: (operating) -5 to 55°C  
 (storage) -10 to 70°C  
 Humidity: 0 to 99% RH  
 IP rating: IP22  
 Expected life: 5 years  
 Warranty: 1 year

### Analyser approvals:

5000ppm versions comply with the requirements of DNV for use in commercial diving to a depth of 350m.

The 5S3 is compliant to relevant EU EMC standards.

The 5S3 has passed the type 2 (heavy industrial) immunity requirements of EN50270 (Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen). Maximum deviation under 10V/m radiated immunity testing was 5% of sensor range.



The 5S3 has passed the type 1 (light industrial) emissions requirements of EN61000-6-3 (Emission standard for residential, commercial and light-industrial environments).



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