

# Датчики газа NDIR 5S Mk III

## Технические характеристики

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# 5S MkIII

CO<sub>2</sub> Infrared Transducer

by **ANALOX**



This **highly precise, stable and accurate dual channel infrared carbon dioxide sensor** supplied in an aluminium housing includes an onboard, barometric pressure sensor **compensating for the effect of atmospheric pressure.**

It is available in a variety of ranges from 0-5000 ppm to 0-100% and can provide either a 0 to 2v or 4-20mA output. The housing is supplied complete with a flow adapter to allow sample gas to be passed over the IR bench; a green status LED is fitted as standard. **The 5S MkIII** is an advanced, solid-state, infrared transducer utilizing high quality optical components to ensure that measurements are specific to carbon dioxide, with virtually no sensitivity to other gasses. Temperature compensation is achieved using unique smart detector technology, further enhanced by the addition of a temperature sensor mounted within the infrared bench, minimizing measurable temperature effects in the operating range.

Our **5S MkIII** is utilized as a robust and accurate industrial process gas sensor or as a part of a safety system in applications including laboratory research, commercial diving, agriculture and the beverage industry.

The **5S MkIII** carbon dioxide sensor is used within some Analox products including our **SDA carbon dioxide monitor** but also as an **OEM solution, utilized by other analyser manufacturers** and as an **ambient CO<sub>2</sub> sensor** connecting to a control panel.

## Features

- Low power consumption
- Variety of ranges
- Analogue output
- Long life expectancy
- Digital outputs
- Temperature compensated sensors with Pressure Sync technology

## Industries

- Research Laboratory
- Medical Laboratory
- Beverage & Hospitality
- Commercial Diving
- Breathing Air
- HBOT
- OEM
- Agriculture
- Refrigeration

## Gas Detected

Carbon Dioxide (CO<sub>2</sub>)

Want to talk about your  
**application requirements?**  
Give us a call!

Your Challenge, **Our Passion**

# 5S MkIII

## Tech Spec

|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| Warm up time             | 30 seconds                                                                                           |
| Response time            | T90 in <30 seconds                                                                                   |
| Detection technique      | Infrared absorbtion                                                                                  |
| Storage temperature      | -20 to +70°C<br>-4 to +158°F                                                                         |
| Humidity                 | 0 to 99% non condensing                                                                              |
| Flow range               | 0.1 to 2 liters/minute                                                                               |
| Operating temperature    | -5 to +55°C<br>+23 to +131°F                                                                         |
| Pressure range           | 800 to 1500 mbarA                                                                                    |
| Power supply             | 9 to 36 V DC (regulated 5V option also available)                                                    |
| EMC emissions            | To EN50270 2006, Type 1                                                                              |
| EMC susceptibility       | To EN50270 2006, Type 2.<br>Max deviation under 10V/m testing is 150 ppm                             |
| Output                   | Either 0-2V DC into load of >1000 Ohms or 4-20mA into load of <=400 Ohms (specifiy at time of order) |
| Warm up fault conditions | Either >2V DC (0-2V DC option) or >20mA (4-20mA option)                                              |
| Enclosure                | Die cast aluminium                                                                                   |
| Dimensions (WxHxD)       | 115 x 70 x 40 mm (including flow adaptor)<br>4.5 x 2.5 x 1.6 inches (including flow adaptor)         |

| RANGE:         | RESOLUTION |
|----------------|------------|
| 0 to 5000 ppm  | 2 ppm      |
| 0 to 10000 ppm | 5 ppm      |
| 0 to 1%        | 0.0005%    |
| 0 to 2%        | 0.001%     |
| 0 to 5%        | 0.002%     |
| 0 to 10%       | 0.005%     |
| 0 to 20%       | 0.01%      |
| 0 to 100%      | 0.05%      |

Accuracy varies depending on the configuration of the optical bench, but is always better than  $\pm(1\%$  of the sensor's full scale plus 2% of the sensor reading plus 0.1% of the sensor's full scale per degree C of temperature shift from calibration temperature).

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