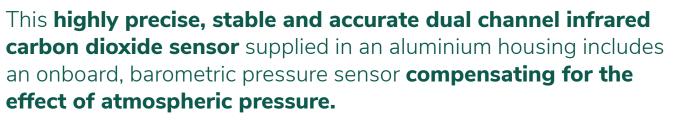
**55 MkII** CO<sub>2</sub> Infrared Transducer

## by **ANALOX**



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

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

5S Mk III

CO<sub>2</sub> transducer

Status O Sensor ok J

**4N***A***LO**2

#### **Gas Detected**

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

## Your Challenge, Our Passion

 Speak to
 UK/Global: +44 (0)1642 711 400

 our team
 US Office: (714) 891 4478

 today
 US Toll Free: (877) 723 3247

# 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 -4 to +158°F
Humidity	0 to 99% non condensing
Flow range	0.1 to 2 liters/minute
Operating temperature	–5 to +55°C +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. 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) 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%

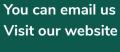
Accuracy varies depending on the configuration of the optical bench, but is always better than  $\pm(1\%)$  of the sensor's full scale plus 2% of the sensor reading plus 0.1% of the sensor's full scale per degree C of temperature shift from calibration temperature).

You can call us

UK/Global: +44 (0)1642 711 400 US Office: (714) 891 4478 US Toll Free: (877) 723 3247 info@analoxgroup.com analoxgroup.com



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