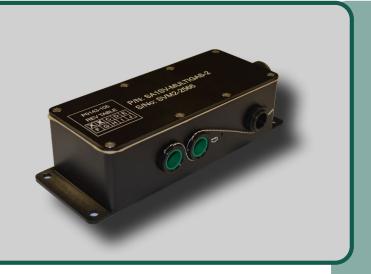
SV-Multigas-2

CO₂ and O₂ Sensor

CO₂ O₂



The SV-Multigas-2 is a dual oxygen and carbon dioxide monitor designed for vehicles operating in the upper atmosphere. Housed in a robust, compact enclosure, the unit is ideal for use in airborne delivery systems, satellites and aircraft cabins. Since 2014 the SV-Multigas-2 has been successfully used in rockets traveling to outer space.

The SV-Multigas-2 incorporates user-maintainable analogue sensors that provide a to 5 V output. This modular approach to gas monitoring ensures that our customers have the flexibility to integrate the unit into their own system. It can be either installed directly in the gas path or used for general air monitoring.

KEY FEATURES

Operating temperature 0 °C to 40 °C (32 °F to 104 °F)

Dual state-of-the-art oxygen and carbon dioxide sensors

Two analogue outputs, one for each gas detected

Maximum power consumption less than 5 watts

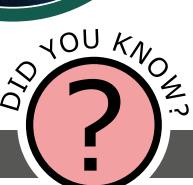
Designed to operate safely in a vacuum for four hours

INDUSTRIES









Dozens of SV-Multigas-2 units are currently orbiting the earth.

Speak to **UK/Global:** +44 (0)1642 711 400 our team **US Office:** (714) 891 4478

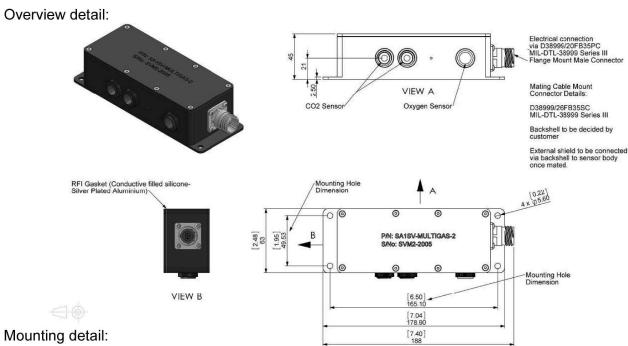
today US Toll Free: (877) 723 3247

SV-Multigas-2

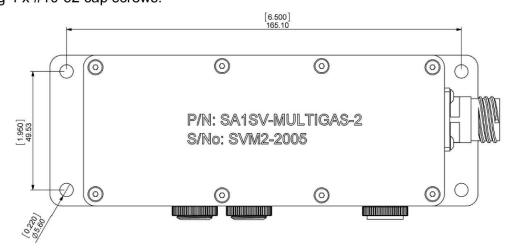
O2

CO₂

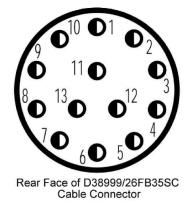
CO₂ and O₂ Sensor



Mount using 4 x #10-32 cap screws.



Electrical connections:



Pin Number	Function
1	EARTH
2	18 to 36VDC
3	OV .
4	N/A
5	CO2 Analogue Output +
6	CO2 Analogue Output -
7	N/A
8	O2 Analogue Output +
9	O2 Analogue Output -
10	CO2 RS485A
11	CO2 RS485B
12	O2 RS485A
13	O2 RS485B

SPECIFICATIONS

Oxygen Sensor

Range: 0 to 5.80 psi pO2 / 0 to 400 mbar **Repeatability @ 14.5 psia, 70 °F / 1000 mbara, 21 °C:** \pm 0.116 psi pO2 / \pm 8 mbar

Carbon Dioxide Sensor

Range: 0 to 0.14 psi pCO2 / 0 to 10 mbar **Repeatability @ 14.5 psia, 70 °F / 1000 mbara, 21 °C:** \pm (0.0014 psi pCO2 + 1.1% of reading) / \pm (0.1 mbar + 1.1% of reading)

System

Operating temperature range: 32 to 104 °F / 0 to 40 °C

Storage temperature range: -4 to 140 °F / -20 to 60 °C

Operating pressure range: 8.7 to 17.4 psia / 600 mbar to 1200 mbara

Vacuum tolerance: normal operation of the SV-Multigas-2 will not be affected by 4 hour exposure to vacuum

Electrical supply: 18 to 36 V DC, 100 mV

ripple maximum

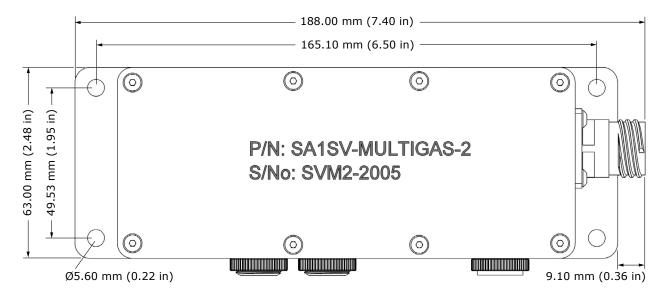
Power consumption: 5 W maximum

2 analogue outputs are provided, one for each gas: Zero output: 1.0 V, full-scale output:

5.0 V, warm-up/fault output: 0.25 V

Outputs are isolated from the incoming power supply and from each other

All wiring is to MIL-DTL-22759 (SAE-AS-22759/33)



NOTE: The SV-Multigas2 should be mounted using four x 10-32 hex socket cap screws (not supplied)

You can call us UK/Global: +44 (0)1642 711 400

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You can email us Visit our website info@analoxgroup.com analoxgroup.com



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Your Challenge, Our Passion