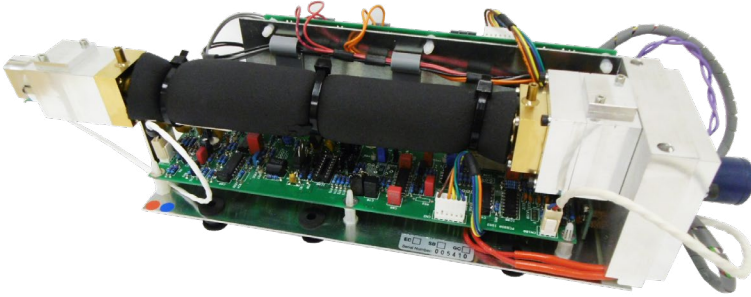


# TECHNICAL DATASHEET



The Venus Solo is an OEM sensor ideal for integration into your analysis system. This highly accurate GFC (Gas Filter Correlation) sensor is available in 5 gases as standard with a variety of Parts Per Million (PPM) and Percent (%) ranges.

Genius Gas Innovations are also able to develop the Venus Solo to monitor your gas of choice and will work closely with you to deliver your unique solution.



## APPLICATIONS

- Breath Analysis
- Emission Monitoring
- Mass Spectrometers
- Manifolds
- Animal Respiration
- Submarine Atmosphere Analysis
- Medical Gas
- Biogas
- Air Separation Units (ASU)
- Fire Detection
- Heat Treatment

## FEATURES

CO

← Choose from

CO<sub>2</sub>

Single gas  
(user defined)

CH<sub>4</sub>

MODBUS RTU via  
RS485 comms

NO

Backward compatible  
with ADC's 'Eclipse'

N<sub>2</sub>O

Linearised Output

Continuous status  
signal to check  
device health

FACT "The Venus Solo is used in Military applications to protect submariners from CO exposure"



Innovation in Gas Analysis



## GASES & RANGES

Gas Type	PPM Ranges									% Ranges					
	10	30	50	100	200	500	1000	2000	5000	1	5	10	20	50	100
CO <sub>2</sub>	✓		✓	✓		✓	✓		✓	✓	✓	✓		✓	✓
CO		✓		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓
N <sub>2</sub> O	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
CH <sub>4</sub>				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
NO					✓	✓	✓	✓	✓						

Your gas not on the list? Just give us a call **+44(0)1642 711400**

## TECH SPEC

Operating temperature range:	10°C to 45°C
Ambient humidity:	0 to 95% RH, non condensing
Warm-up time:	30-60 minutes ( dependant upon gas)
Response time(T90):	Between 10-90 secs (dependant upon gas cell length) at flow rate of 500ml/minute
Sensor Technology	Gas Filter Correlation
Outputs	0-2.5V, 4-20mA & MODBUS RTU via RS485
Power Requirements	24V DC +/- 10%, Max current 3A, Nominal current 600mA (after warm up)
Intrinsic Accuracy	+/- 0.2% of full scale

Also check out our **Venus Pro** multi-gas analyser which can monitor up to four gases.

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