



- · Available in 1, 2, 3, 4 or 5 gas channel configurations
- · New design for improved specifications
- · Supplied with software suite for use over Ethernet or RS232
- · Suitable for ultra-low measurement range applications
- ·Rotating Filter design for minimal cross sensitivity

The new Pulsar detector from Signal has been upgraded to provide our best ever performance specification. With the lowest drift on the market it is ideal for low range applications or high accuracy measurement. The GFC design of the detector prevents cross sensitivity to other gases and also removes the risk of contamination through a sample containing particulate matter. It provides a cost effective, low maintenance option for even low concentration measurement applications.

Ambient Operating and Storage Conditions

Operating temperature: 5°C to 40°C Storage max humidity: ≤80% RH

Power requirements: 100-240VAC 50/60Hz

Storage temperature: -12°C to 40°C Max operating humidity: ≤ 80%RH Sample temperature: maximum 40°C Inlet pressure: Up to 2 bar

Sample dewpoint: below local ambient temperature

Construction Materials

Wetted: stainless steel 316, PTFE, quartz in paramagnetic O2 detector

Output Signals

Ethernet as standard. Optional 4-20mA and 0-10V DC. Onboard logging included with screen option.

Intercept ≤0.5% range.

Linearity

< ±0.5% of range or 2% reading

SEE ≤ 1.0% Range $R2 \ge 0.998$ 0.990 ≤ Slope ≤1.01

Repeatability

< ±1% of range or ±0.5ppm, whichever is greater

Zero: <1% FS/24h, < 2% of range per week

Span: <1% FS/24h, <4% of range per week

Cell Specifications

Noise: 0.01%FS Dynamic Range: 2,000:1

Response Time T90

<5s Dependent on gas and cell length. See page 2 for individual values

Warmup Time

Useable: 5 minutes

Operation to specification: 1 hour

Ambient Temperature Effect

Zero and Span: <0.2% of range per °C

Flow Sensitivity

0.1% of range per L/min

Sample Filter Pore Size

10 micron





Gas/Range	Maximum Measuring Range	Resolution	LDL	Zero Noise	Span Noise	Response Time T90
AA	100ppm	0.1ppm	0.6ppm	0.3ppm	1% range	3 seconds
Α	1000ppm	1ppm	2ppm	1ppm	1% range	3 seconds
В	1%	10ppm	0.02%	0.01%	1% range	2 seconds
С	10%	0.01%	0.1%	0.05%	1% range	1 second
Purity	100%	0.1%	0.4%	0.2%	1% range	1 second
CO2						
AA	100ppm	0.1ppm	1ppm	0.5ppm	1% range	2 seconds
Α	1000ppm	1ppm	1ppm	0.5ppm	1% range	2 seconds
В	1%	10ppm	20ppm	10ppm	1% range	1 second
С	10%	0.01%	0.02%	0.01%	1% range	1 second
D	20%	0.02%	0.1%	0.05%	1% range	1 second
E	100%	0.1%	0.4%	0.2%	1% range	1 second
Purity	100%	0.1%	0.4%	0.2%	1% range	1 second
N2O						
Α	1000ppm	1ppm	2ppm	1ppm	1% range	5 seconds
В	1%	10ppm	20ppm	10ppm	1% range	3 seconds
NO						
A	1000ppm	1ppm	4ppm	2ppm	2% range	2 seconds
В	1%	10ppm	40ppm	20ppm	2% range	2 seconds
SO2						
A	1000ppm	1ppm	2ppm	1ppm	1% range	2 seconds
В	1%	10ppm	20ppm	10ppm	1% range	2 seconds
CH4						
A	1000ppm	1ppm	4ppm	2ppm	1% range	5 seconds
В	1%	10ppm	40ppm	20ppm	1% range	4 seconds
E	100%	0.1%	0.2%	0.1%	1% range	2 seconds
Purity	100%	0.1%	0.4%	0.2%	1% range	2 seconds
HCI						
Α	1000ppm	1ppm	8ppm	4ppm	1ppm	1 ppm
В	1%	0.1%	80ppm	40ppm	20ppm	20ppm