

PULSAR

IR Analyzer with GFC Technology



Gas Filter Correlation is the best type of Non-Dispersive Infra-Red for combustion analysis. Instead of a dual beam sample cell and a separate reference cell, this method uses only a single cell for both sample and reference.

This method reduces problems with cell contamination causing a difference in readings.

With **ISATEC PULSAR** it's possible to measure up to 5 gases using a single analyzer: gases such as CO, CO₂, NO, SO₂, CH₄, HCl and O₂ can be included in many combinations of ranges.

We offer various configurations and options to suit many applications, such as combustion analysis, process monitoring and CEMS.

KEY FEATURES:

- Electronic pressure and temperature compensation
- Up to 5 gas channel configurations
- Supplied with software suite for use over Ethernet or RS232
- Suitable for ultra-low measurement range applications (e.g. 0-10 ppm CO)
- Rotating filter design for minimal cross sensitivity

Can be customized for special applications.

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TECHNICAL SPECIFICATIONS

Operating temperature	5°C to 40°C
Storage temperature	-12°C to 40°C
Storage max humidity	≤ 80% RH
Inlet pressure	Up to 2 bar
Power requirements	100-240VAC 50/60Hz or 24V DC Universal
Max operating humidity	≤ 80% RH
Sample dewpoint	Below local ambient temperature
Sample temperature	Maximum 40°C
Construction materials	Wetted: stainless steel 316, PTFE, quartz in paramagnetic O ₂ detector
Output signals	Ethernet as standard. Optional 4-20mA and 0-10V DC
Linearity	< ± 0.5% of range or 2% of reading Intercept ≤0.5% range 0.990 ≤ Slope ≤ 1.01 SEE ≤ 1.0% range R ² ≥0.998
Repeatability	< ±1% of range or ±0.5 ppm, whichever is greater
Drift	Zero: <1% FS/24h, <2% of range per week Span: <1% FS/24h, <4% of range per week
Response time T90	<5s dependent on gas and cell length
Warm up 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
Size	19" (w) x 133.5 (h) x 530 mm (d)
Weight	30 Kg