

BRINGING CERTAINTY TO AIR EMISSIONS MEASUREMENT



DIRECTOPTICS

BY GLOBAL ANALYZER SYSTEMS

CRDS-based NO₂-NO_x-NO Analyzer - Patented Self-Aligned Cavities - Fast Response Time -
Low ppt to ppm Detection Limits - Intuitive Interface - Modbus Communication

DUAL-CHANNEL CRDS NO₂-NO_x-NO ANALYZER

Global Analyzer Systems is introducing the Direct Optics Cavity Ring Down Spectroscopy (CRDS) analyzer.

A state-of-the-art instrument designed to directly measure the criteria pollutant nitrogen dioxide (NO₂) known to affect human health. With our advanced spectroscopic technique innovations, this CRDS instrument enables precise and real-time measurement of NO₂ concentrations in ambient air. This groundbreaking technology not only detects NO₂ molecules with high precision and sensitivity, but also offers continuous monitoring of nitrogen oxides (NO_x), providing a comprehensive understanding of air quality dynamics.

Get accurate and fast measurements with Direct Optics G-60 dual-channel analyzer.



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INNOVATION IN NITROGEN DIOXIDE MEASUREMENT



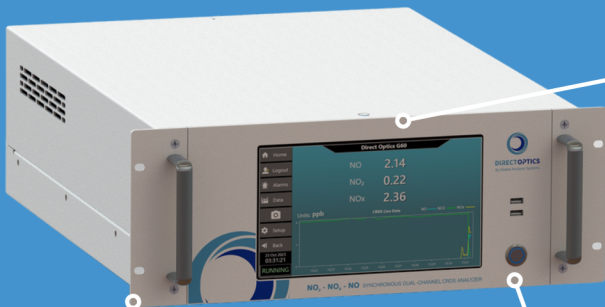
WHY CHOOSE DIRECT OPTICS?

The Direct Optics G-60 analyzer is a high-precision CRDS-based instrument with two independent channels.

Our patented self-aligned optical cavities directly & continuously measure NO₂, NO_x and then NO.

Direct Optics G-60 offers:

- Trace level real-time direct NO₂ measurement
- Trace level real-time direct NO_x measurement
- Interference-free NO₂ measurement
- High temporal resolution (1 second)
- No purge volumes/lag time



✓ Size: 23.5"(d) x 7"(h)

✓ Weight: 37 lbs

✓ Power: 100-240 VAC (50-60 Hz), 110W

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✓ Ethernet Connection: Modbus TCP/IP

✓ Ranges: 0-1,000 ppb (extended ranges up to 10 ppm)

✓ Lower Detection Limits: < 40 ppt

✓ Flow Rate: 500 cc/min ±10%

✓ Linearity 1% full scale ($r^2 = 0.999$)

✓ Span Drift: < 0.5% of reading/24 hours

✓ Operating Temperature: 0°C - 40°C

✓ Zero Noise: < 20 ppt (RMS)

✓ Span Noise: < 0.1% of reading (RMS)

✓ Precision: < 0.5% of reading above 1 ppb

✓ Response Time: < 5 seconds to 90%

✓ Averaging time: 5 seconds - 300 seconds (selectable)

✓ Patent #US 11,674,888 B2



ABOUT GLOBAL ANALYZER SYSTEMS

Founded in 1996, Global Analyzer Systems Ltd. is a leader in the emissions monitoring industry. We ensure safe and sustainable air by bringing certainty to emissions measurement. Our new product line, Direct Optics, is designed to overcome market limitations by offering improved techniques for a more precise measurement of trace gases.