

## PhoNO<sup>™</sup> - PHOTOLYTIC NO<sub>2</sub> CONVERTER

Upgrade your existing NO<sub>X</sub> analyzer with Global Analyzer Systems' PhoNO<sup>™</sup> Converter.

Regulating nitrogen dioxide ( $NO_2$ ) is vital for safeguarding public health and the environment. However, the challenge lies in the accuracy of measurements. Traditional analyzers employing Heated Metal Converters (HMC) frequently overestimate  $NO_2$  levels, creating emissions control concerns.

The Global PhoNO is a game-changer in the field of  $NO_2$  measurement using chemiluminescent technologies. PhoNO precisely measures True  $NO_2$  concentrations and selectively separates them from other nitrates present in the air enabling existing analyzers to meet the accuracy needs of the compliance industry.

Its patented conversion process eradicates the problem of  $NO_2$  overestimation.

Get accurate and fast measurements with Direct Optics PhoNO.



# INNOVATION IN NITROGEN DIOXIDE MEASUREMENT



### WHY CHOOSE PHONO<sup>TM</sup>

#### Direct Optics PhoNO<sup>™</sup> offers:

- Eliminate erroneous over reporting of  $NO_2/NO_X$  (can be >100%)
- Conversion rate independent of concentration
- Selective high conversion of NO<sub>2</sub> at reduced pressures
- $\bullet$  Direct replacement for thermal converters typical of  $\text{NO}_{\chi}$  analyzers
- Outputs for real-time converter performance monitoring
- Long service life (>4 years) with no memory effects on converter performance
- Cost effective long-term solution saving users >\$20,000 in new analyzer costs
- Simple installation
- Designed to scrub ozone prior to sample vent and eliminates the need for heaters
- User friendly



- ✓ Linear Conversion of NO₂ to NO over entire operating range (r²= 0.99998)
- ✓ Operating Range: < 0.5 ppb >200 ppm NO₂
- Residence Time: 0.8 2 seconds
- Operating Flow Rate and Pressure:
  - 0.3 0.8 slpm at 100 220 mmHG
  - 0.3 0.45 slpm at 50 115 mmHG

- ✓ Size: 4.5"(w) x 6.5"(h) x 8.5"(d)
- ✓ Weight: 5 lb (2.0 kg)
- Power: 100-240 VAC (50-60 Hz), 35W
- ✓ US Patent #11,435,291 B2
- US Patent Pending (App #16/612,135)



#### 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.