



## Teledyne API Instrument Overview

Teledyne Advanced Pollution Instrumentation, Inc. (TAPI) is a world leader in the design and manufacture of precision analytical instrumentation for gas analysis. TAPI offers competitive, high performance products for use in applications related to ambient monitoring, continuous

emissions monitoring, semi-conductor fabrication, water purification and treatment, clean room monitoring, gas purity, and air separation.

Common features included in all E-Series analyzers:

- Independently calibrated output ranges
- Ethernet Connectivity
- Commonality of parts across all models
- Dual, independent RS232 / RS485 ports
- Onboard DAS for data and diagnostics

Ultraviolet Fluorescence Analyzers			
Gas	Model	Ranges (Min/Max)	Applications
SO <sub>2</sub> Sulfur Dioxide	100E	0-50 ppb / 0-20 ppm	Ambient level; EPA Equivalency, Dilution CEM
	100EH	0-10 ppm / 0-5,000 ppm	High level; Extractive CEM
	100EU	0-5 ppb / 0-2,000 ppb	Trace level; Ultra-sensitive
H <sub>2</sub> S Hydrogen Sulfide	101E	0-50 ppb / 0-20 ppm	Ambient level
Total Reduced Sulfur	102E	0-50 ppb / 0-10 ppm	Ambient level
Total Sulfur	108E	0-50 ppb / 0-20 ppm	Ambient level

Chemiluminescence Analyzers			
Gas	Model	Ranges (Min/Max)	Applications
NO, NO <sub>2</sub> , NO <sub>x</sub> Nitrogen Oxide, Nitrogen Dioxide	200E	0-50 ppb / 0-20 ppm	Ambient level; EPA Equivalency, Dilution CEM
	200EH	0-5 ppm / 0-5,000 ppm	High level; Extractive CEM
	200EM	0-1 ppm / 0-200 ppm	Medium level; Extractive CEM
	200EU	0-5 ppb / 0-2,000 ppb	Trace level; Ultra-sensitive
NO <sub>y</sub> Reactive Oxides of Nitrogen	200EU / 501NO <sub>y</sub>	0-5 ppb / 0-2,000 ppb	Trace level; Ultra-sensitive
NH <sub>3</sub> Ammonia	201E / 501NH <sub>3</sub>	0-50 ppb / 0-2,000 ppb	Ambient level

Optional Sensors			
Gas	Model	Ranges (Min/Max)	Application
O <sub>2</sub> Oxygen	Option, Add-On	0-100% (Paramagnetic)	Process, CEM
CO <sub>2</sub> Carbon Dioxide	Option, Add-On	0-20% (NDIR)	Process, CEM

Either O<sub>2</sub> or CO<sub>2</sub> (maximum 1) can be added to any E-Series analyzer

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### Infrared Gas Filter Correlation Analyzers

Gas	Model	Ranges (Min/Max)	Applications
CO Carbon Monoxide	300E	0-1 ppm / 0-1,000 ppm	Ambient level; EPA Equivalency
	300EM	0-5 ppm / 0-5,000 ppm	High level; CEM, Process
	300EU	0-100 ppb / 0-100 ppm	Trace level; Ultra-sensitive
CO <sub>2</sub> Carbon Dioxide	360E	0-2 ppm / 0-2,000 ppm	Ambient level
	360EM	0-4 ppm / 0-4,000 ppm	High Level
	360EU	0-100 ppb / 0-100 ppm	Trace level; Ultra-sensitive
N <sub>2</sub> O Nitrous Oxide	320E	0-1 ppm / 0-1,000 ppm	Medium level; Medical, Semi-Conductor
	320EU	0-200 ppb / 0-200 ppm	Trace level; Ultra-sensitive

### Ultraviolet Absorption Analyzers

Gas	Model	Ranges (Min/Max)	Applications
O <sub>3</sub> Ozone (Ambient)	400E	0-100 ppb / 0-10 ppm	Ambient level; EPA Equivalency
O <sub>3</sub> Ozone (Industrial)	452	0-5 wt% / 0-20 wt%	O <sub>3</sub> generator efficiency/control
	454 (DIN Mount)	0-5 wt% / 0-20 wt%	O <sub>3</sub> generator efficiency/control
	465L (Rack Mount/NEMA)	0-1 ppm / 0-500 ppm	Low level; Safety; Process
	465M (Rack Mount/NEMA)	0-1,000 ppm to 0-10,000 ppm 0-5g/Nm <sup>3</sup> to 0-50 g/Nm <sup>3</sup>	Mid-Level; Safety; Process
	465H (Rack Mount/NEMA)	0-1% w/w to 0-5% w/w 0-5% w/w to 0-25% w/w 0-100g/Nm <sup>3</sup> to 0-400g/Nm <sup>3</sup>	High Level; Safety; Process

### Calibration

Gas	Model	Ranges (Min/Max)	Applications
All Gases	700E	n/a	Mass Flow Calibrator
	701	0-20 LPM, 30 PSI	Zero Air Generator
	701H	0-20 LPM, 35 PSI	High Performance Zero Air Generator
	702	n/a	Precision Calibrator
O <sub>3</sub> Ozone	703E	0-100 ppb / 0-10 ppm	O <sub>3</sub> Calibrator (401 replacement)

### Paramagnetic Analyzers

Gas	Model	Ranges (Min/Max)	Applications
O <sub>2</sub> Oxygen	802E	0-100% (Paramagnetic)	CEM

Specifications subject to change without notice. Printed documents are uncontrolled. SAL000026 A (DCN 5271) Overview 01/28/09.



**TELEDYNE INSTRUMENTS**  
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For more information about the Teledyne API family of monitoring instrumentation products, call us or visit our website at

[www.teledyne-api.com](http://www.teledyne-api.com)

