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Model 200E

Chemiluminescence NO/NO₂/NO_x Analyzer

The Model 200E uses the proven chemiluminescence detection principle, coupled with state-of-the-art microprocessor technology to provide the sensitivity, stability and ease of use needed for ambient or dilution CEM monitoring requirements.

The analyzer uses multi-tasking software which allows complete control of all functions while providing online indication of important operating parameters. Measurements are automatically compensated for temperature and pressure changes.

In addition, stability is enhanced by an Auto-Zero circuit that continuously provides a true zero reference. The result is sensitive, accurate, and dependable performance under the harshest operating conditions. All instruments in the TAPI E Series include built-in data acquisition capability using the analyzer's internal memory. This allows the logging of multiple parameters including averaged or instantaneous concentration values, calibration data, and operating parameters such as pressures and temperatures.

Stored data are easily retrieved through the serial port or optional Ethernet port via APIcom or from the front panel, allowing the operator to perform predictive diagnostics and enhanced data analysis by tracking parameter trends.

The Model 200E combines lighter weight, rugged construction, ease of use, powerful diagnostics, modular design and outstanding performance to yield the ideal tool for today's air monitoring requirements.

Features

- Standard two year warranty
- Ranges, 0-50 ppb to 0-20 ppm, user selectable
- Independent ranges for NO, NO₂, NO_x
- Microprocessor controlled for versatility
- Multi-tasking software allows viewing test variables while operating
- Continuous self checking with alarms
- Permeation drier on ozone generator
- Dual bi-directional RS-232 ports for remote operation (optional RS-485 or Ethernet)
- Digital status outputs provide instrument operating condition
- Adaptive signal filtering optimizes response time
- Temperature & Pressure compensation
- Converter efficiency correction software
- Continuous automatic zero correction
- Catalytic ozone scrubber
- Internal Zero & Span check (optional)
- Internal data logging with 1 min to 365 day multiple averages



Specifications	
Ranges:	0-50 ppb to 0-20,000 ppb full scale, user selectable. Independent NO, NO ₂ , NO _x ranges and autoranging supported
Units:	ppb, ppm, µg/m ³ , mg/m ³
Zero noise:	< 0.2 ppb (RMS)
Span noise:	< 0.5% of reading (RMS) above 50 ppb
Lower Detectable Limit (LDL):	0.4 ppb
Zero drift:	< 0.5 ppb/24 hours, < 1 ppb/7 days
Span drift:	< 0.5% of reading/24 hours, < 1% of reading/ 7 days

Lag time:	20 seconds
Rise and Fall Time:	< 60 seconds to 95%
Linearity:	1% of full scale
Precision:	0.5% of reading
Sample Flow Rate:	500 cm ³ /min ±10%
Operating Temperature Range:	5 - 40° C (with EPA Equivalency)
Dimensions (HxWxD):	7" (178 mm) x 17" (432 mm) x 23.5" (597 mm)
Weight:	Analyzer - 40 lbs (18 kg) External pump - 15 lbs (7 kg)
Power:	100V - 120V, 220V - 240V, 50/60 Hz, 250W
Analog outputs:	10V, 5V, 1V, 0.1V, selectable
Recorder Offset:	±10%
Serial Outputs:	Serial Port 1: RS-232 (DB-9M) Serial Port 2: standard RS-232 or optional RS-485 (DB-9F), Ethernet
Status (Digital):	8 outputs, 6 inputs (opto-isolated), 4 alarm outputs (optional)
Current Output:	Optional 4-20mA, select up to three channels
Approvals:	USEPA RFNA-1194-099, CE, MCERTS certified Sira MC050068/00 EN14211 Approved, and others.

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