UV Absorption Ozone Analyzer - Model O342M

Low level monitoring of O_3 from 0.4 ppb to 10 ppm

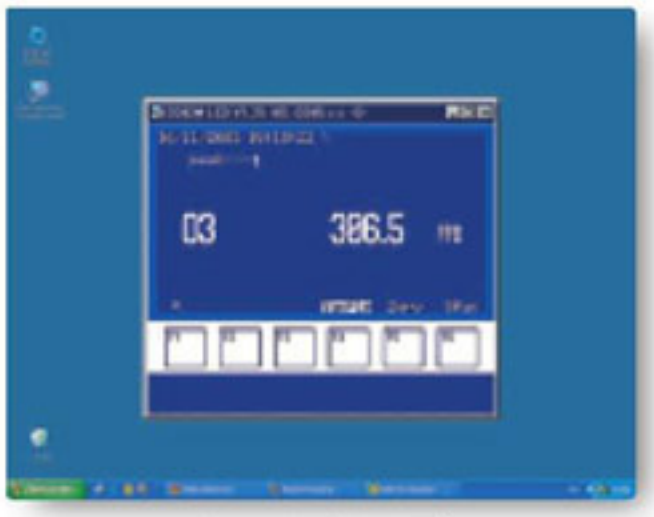
US EPA Approved EQOA-0206-148

New analyzer

- Ultra compact and light – rack 3U
- Modular design
- SMD enhanced electronics
- High precision metrology
- Enhanced data logging functions
- In compliance with ISO 13964 and NF X43-024

Reduced maintenance

- Ease and accessibility of components
- Traceability of parts and consumables
- Sealed ozone scrubber
- Remote maintenance and telediagnostics



Remote Control

Major fields of applications :

- Ambient air monitoring
- Indoor air monitoring
- Mobile laboratory
- Laboratory and field studies on the effects of ozone

Main features :

- Graphic Liquid Crystal Display (LCD)
- Interactive menu driven software with enhanced speed display
- Real-time synoptic flow diagram display
- User programmable ranges and average times
- Autoranging
- Automatic response time
- Real time calibration graph
- Built-in storage of two months average data (up to 1 year with the optional memory extension)
- Built-in double serial interface (RS 232/RS 422) for remote maintenance

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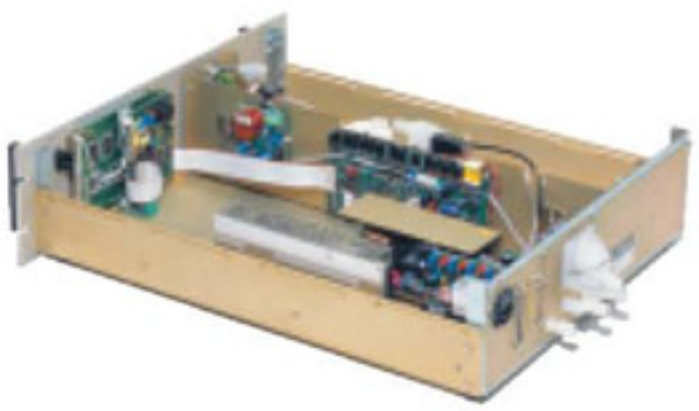
Specifications :

- Ranges : 0-0.1/ 0.2 / 0.5 /1 / 2 / 5 / 10 ppm or user selectable ranges
- Autoranging between two-user specified ranges
- Noise (σ) : 0.2 ppb
- Lower detectable limit : 0.4 ppb
- Response time : automatic and programmable (minimum 20 sec)
- Zero drift : less than 0.5 ppb / 24 h
  less than 1 ppb / 7 days
- Span drift : less than 0.5 % / 24 h
  less than 1 % / 7 days
- Linearity : ± 1 % of F.S.
- Pressure and temperature compensation
- Sample flow rate : 1 lpm
- Internal sample pump
- Averaging time : programmable from 1min to 24h
- Data storage : more than 2 months quarterly average values
- Chassis : 19" rack mountable, 3U
- Dimensions : 545 mm x 483 mm x 133 mm (L x W x H)
- Weight : 9 kg (20 lbs)
- Power : 115 V, 60 Hz - 230 V, 50 Hz
- Power consumption : 70 VA
- Operating temperature : 5 – 40 °C (typical as per US EPA 10 - 35° C)
- Digital output : 2 RS 232 or RS 422 ports
- PVDF sample filter holder

Options :

- ESTEL electronic board (1 or 2) with :
  - 4 independent analog inputs
  - 4 independent analog outputs
  - 4 remote control inputs
  - 6 dry contacts
- Valves block for selection of customer – supplied zero and span gas
- Built-in ozone generator and Filter – Valves block
- Memory extension (1 year of 1/4 h average values)
- 24 V DC power supply for on-board applications



Main Features:

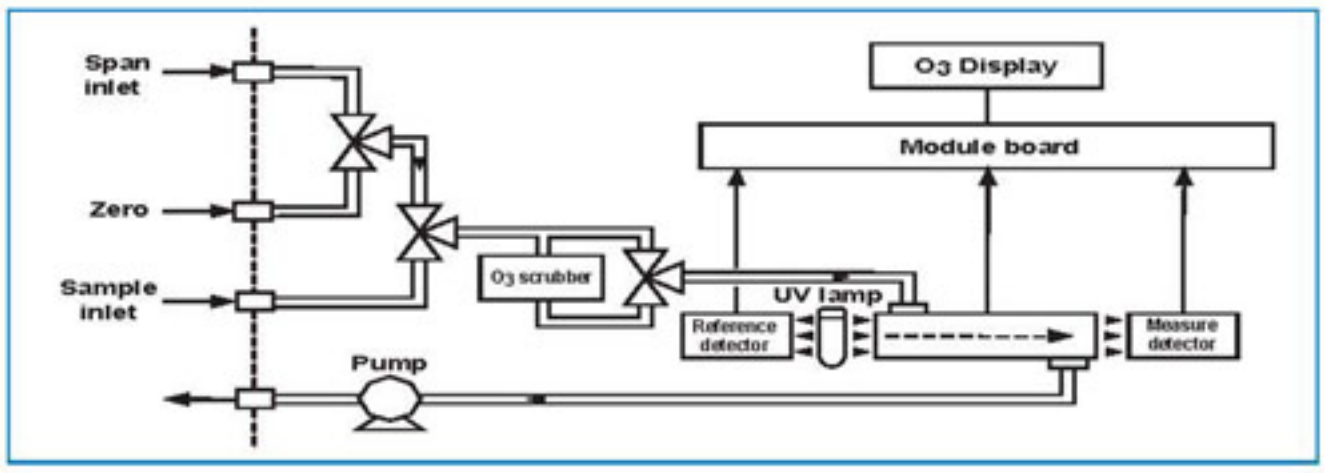
The new ozone analyzer model O342M, combines years of experience of a wide range of analyzers with an enhanced electronics package and a modular component parts design (measurement module, ozone generator module, 24V power supply module, analog input-output module, etc.).

The outcome is an ultra compact and light- rack 3U, easy-to-use analyzer capable of measuring ozone at ppb levels. Applied to ozone measurement, the universally known UV absorption principle consists in measuring UV absorption of ozone molecules. Ozone concentration is determined by difference between UV absorption of the gas sample and the sample without ozone after filtration performed by a catalytic converter.

The analyzer was developed to meet customers' requirement for reduced and easier maintenance. Equipped with a sealed ozone scrubber located in the thermo-regulated measurement module, easily interchangeable, the O342M combines a powerful, easy-to-use interface with quality components and design technology.

Real-time calibration graphs can be displayed during span check operation. Multi-tasking software, combined with the LCD graphic display, gives a user-friendly access to the instrument set-up, as well as the status and maintenance parameters. Real-time synoptic, auto-diagnostic and maintenance data screens can be displayed while the instrument is operating. The new electronics allow enhanced data storage of up to one year of 15 minute averages, and total remote troubleshooting diagnostic capabilities via modem, using the analyzer's complete display and functions emulation.

Equipped with the optional ESTEL I/O analog & digital board, the O342M can be easily interfaced with other equipment and can be operated as a stand alone unit able to store several months of data.



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