UV Absorption Ozone Analyzer **0342M**

NEW: on board web server and es@cloud™ user interface with on-line help for the display, configuration, maintenance, diagnostics or software updating of the analyser, remotely, from any PC, tablet or iPhone.

TCP/IP remote control with dynamic, multilingual interface, featuring intuitive navigation by pictograms.

Example of mobile air quality monitoring station with rack version 2M series analyzers.

EXCLUSIVE FEATURES:

- **Provides accurate O_3 measurements in the range of 0.4 ppb-10 ppm**
- User programmable ranges and average times
- Auto-ranging
- Real time calibration graph
- Full remote emulation of the analyzer
- Graphic Liquid Crystal (LCD) display
- Built-in USB port and serial interface (RS 232 / RS 422), Ethernet connection for full remote control and display functions
- Extremely compact, easy to use
- Built-in storage of 12 months 1/4 h average data
- Includes embedded Communication Protocol for XR® Management Software
- Interactive menu-driven display allowing user-friendly and intuitive interface for the operator
- *Options:* internal O_3 generator (span check)
- Compliance with ISO13964 and EN 14625 standards

Type approvals:

> TÜV report n° 936/21205818/D (Germany),
> US EPA n°EQOA-0206-148 (USA)

APPLICATIONS:

Continuous indoor and outdoor air quality monitoring • Stationary and mobile AQMS laboratories • Industrial fence-line monitoring • Continuous emissions monitoring (CEM) by dilution • Measurement Campaigns and Monitoring Studies • Laboratory and field studies on ozone effects...

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SPECIFICATIONS:

- Ranges: 0-0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 ppm or custom range selectable
- Noise: 0.2 ppb
- Lower detectable limit: 0.4 ppb
- Response time: automatic and programmable (minimum 20 sec.)
- Zero drift: less than 1 ppb / week
- Span drift: less than 1 % / week
- Linearity: ± 1 % of full scale
- Internal sample pump
- Sample flow rate: 1 lpm
- Pressure and temperature compensation
- Averaging time: programmable from 1 minute to 24h
- Data storage: 12 months (1/4h data)
- Chassis: 19'' rack, 3U
- Dimensions: (L x W x H): 483 x 545 x 133 mm
- Weight: 9 kg (19.9 lbs)
- Power supply: 115 V, 60 Hz / 230 V, 50/60 Hz
- Power consumption: 70 VA
- Operating temperature: +5 to +40°C
- Ethernet connection, USB port and serial interface (RS 232 / RS 422)
- Digital output: RS 232 / RS422
- PVDF sample filter holder

OPTIONS:

- Ethernet network connection
- ESTEL electronic board (1 or 2) with:
  - 4 independent analog inputs
  - 4 independent analog outputs
  - 4 remote control inputs
  - 6 dry contacts outputs
- SOREL electronic board with:
  - 4 dry contacts outputs
  - 4 dry contacts inputs
- Internal ozone generator and filter
- 24V DC power supply for on-board applications
- Valves block for customer-supplied zero air and span gas
- Tight box version
- 7'' color touch screen upon request

OPERATING PRINCIPLE:

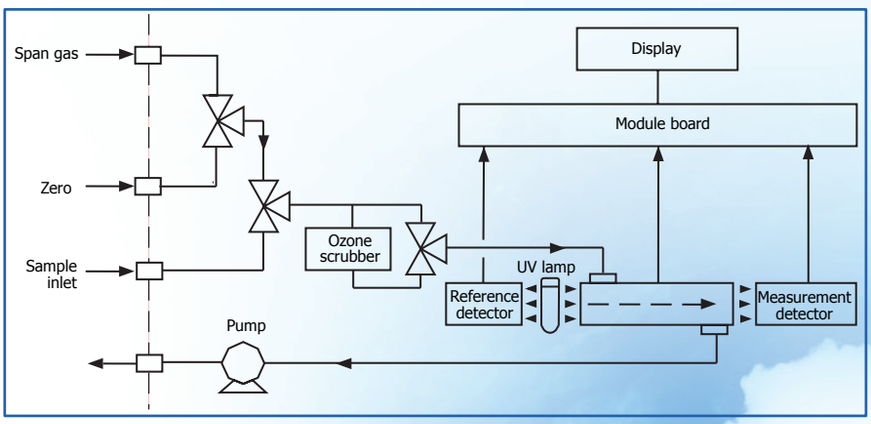
The 0342M ozone analyzer combines years of experience of a wide range of analyzers with an enhanced electronics package and a modular component parts design (measurement module, ozone generator module, 24V power supply module, analog input-output module...).

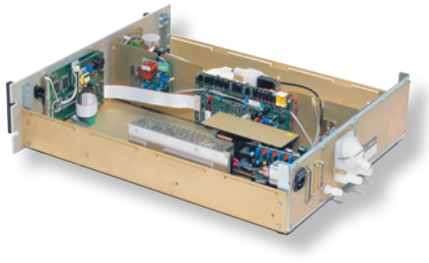
The outcome is an ultra compact and lightweight (rack 3U), easy-to-use analyzer capable of measuring ozone at ppb levels.

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 0342M 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.
As the entire 2M series, the 0342M analyzer integrates an embedded web server featuring intuitive navigation by pictograms and offering quick and easy access to the analyzer, without the use of a special software. Secured, modern, simple, fast and accessible from any type of browser, the es@cloud™ interface allows the display, configuration, maintenance, diagnostics or software updating of Environnement SA analyzers, remotely, from any PC, tablet or SmartPhone.
From customising menus with shortcut key functions, "favourite" themes and animated diagrams, everything has been designed for a quick familiarisation and a comfortable use of the analyzers: just *plug and play*!





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