O342e

UV PHOTOMETRIC **OZONE ANALYZER**

envea
Elevating standards. For life.

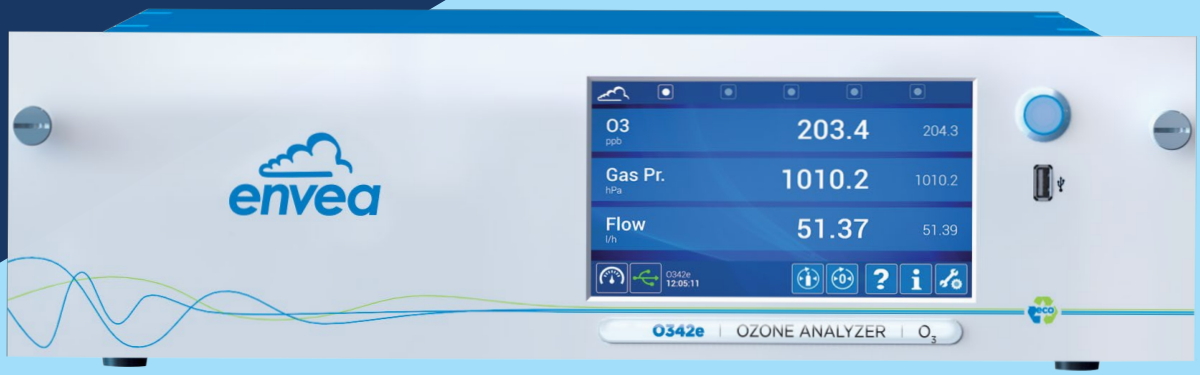
The O342e combines patented optical technology with decades of expertise to ensure you get the best ozone monitoring results, quickly, ecologically and reliably

FEATURES AND BENEFITS

- Excellent metrological performances for O_3 measurements
- Innovative conception of the photomultiplier module for excellent sensitivity and signal stability
- Real-time calibration graph, animated synoptic, auto-diagnostic, control and maintenance data screen displayed while instrument is operating
- Service assistance inside: detects early warning signs, allows predictive maintenance, identifies the needed service and step by step guides for service operations
- Automatic recognition of plugged electronic boards or optional devices: plug & play principle
- Includes embedded communication protocol for all DAS with automatic recognition & configuration
- Local and remote control through digital port (configuration, calibration, test and diagnosis parameters for maintenance support)

e-Series analyzers are fully eco-designed, with consideration to minimise carbon footprint through the whole lifecycle:

- Ultra low power consumption: an environmentally-friendly and cost-saving analyzer
- Breakthrough mechanical design for weight and power saving as well as thermal insulation & reliability
- Modular concept makes the product more robust, and simpler to service



MCERTS CSA MC250452/00
TÜV Rheinland N°0000043106
EQCA-0515-225

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TECHNICAL **SPECIFICATIONS**

Measurement range	0-10 ppm auto-ranging
Measurement units	ppm, mg/m³, ppb, µg/m³, ppt, (user selectable)
Detection limit (2σ)	0.2 ppb
Zero noise **Span noise**	0.1 ppb 0.07% of F.S. (or 0.1 ppm minimum)
Zero drift	<0.5 ppb / 24h 0.5 ppb / 7days
Span drift	<0.5% / 24h. 0.5 % / 7days F.S
Response time	Min 20 s
Linearity	1% of F.S
Repeatability	0.07% of F.S. (or 0.1 ppm minimum)
Power supply	230 VAC / 50 Hz (115 V / 60 Hz) 24 VDC optional
Power consumption	230VAC power supply: 32W at start-up, 23W nominal 24 VDC power supply: 32W at start-up, 23W nominal
Connectivity	Ethernet (RJ45 socket) USB Port, serial RS232/RS485 (optional)
Optional analog output	External opto-isolated I/O interface with: • 4 independent analog inputs • 4 independent analog outputs • 4 remote control inputs • 6 dry contacts outputs
Communication Protocols	Modbus (TCP-IP, RTU/Jbus), Mod4, UDP, Baeyrn. Gas Inlet/Outlet: External Zero, Span, SV control
Data storage	1 year (15 minutes average) Measured channels (with the selected period), status codes (data, voltage, Analog output, Operating Temperature)
Dimensions	483 x 545 x 133 L x W x H (mm)
Chassis	19" rack, 3U
Weight	9 kg (19.9 lbs)
Standard operating temperature	5°C to +40°C

PRINCIPLE OF **OPERATION**

The monitor represents an absolute technological evolution as it implements in premiere LED based UV photometric technique (Patented).

The innovative LED component replaces the Mercury lamp traditionally used as a spectroscopic source for ozone monitoring. Besides eliminating Mercury, which is heavily polluting, the LED technology offers also excellent stability of the measurement.



MAIN **OPTIONS**

- Internal ozone generator for span check control; provides repeatable and stable O_3 molecules generation
- 24 VDC power supply and enhanced T° range up to 50°C for use without air conditioner

INCLUDED

- Internal sampling pump
- Pressure and temperature compensation
- Internal solenoid valve block for zero air and span gas
- Built-in web-server with full remote emulation of the analyze

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O342e Datasheet
O342e UV photometric ozone analyzer - Specifications subject to change without notice

ISO 45001:2018
ISO 14001:2015
ISO 9001:2015
CERTIFICATION