



NANOENVI^{eq}

MULTIPARAMETRIC PORTABLE ANALYZER

- ■ ■ Electrochemical cells for NO, NO₂, SO₂, H₂S, O₃ and CO, PID for VOC, laser scattering for PM.
- ■ ■ Low cost of acquisition and operation.
- ■ ■ Low power requirements.
- ■ ■ Internal datalogger.
- ■ ■ Multiple communication options.
- ■ ■ Small sampling pump. Low noise and power requirements.
- ■ ■ Completely autonomous, easy installation and configuration.
- ■ ■ Up to 4 sensors in one instrument
- ■ ■ New auto zero feature

Developed by Envira Sostenible S.A., the Nanoenvi^{eq} analyzer uses a combination of different sensors to measure main pollutants.

The electronics converts the response of the sensor element into concentration values, compensating the variations produced by changes in ambient temperature and humidity.

Data are stored in the internal memory of the system and can be easily downloaded using either the USB port of the instrument or any of the available communication options.

Cloud ready.

Applications:

- ■ ■ Air quality monitoring. Indicative measurements.
- ■ ■ Smart Cities.
- ■ ■ Indoor Air Quality.
- ■ ■ Odour control.
- ■ ■ Forest fires detection.
- ■ ■ Industrial accidents monitoring.
- ■ ■ Fence line monitoring.
- ■ ■ Road traffic monitoring.
- ■ ■ Workplace air quality control.

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Specifications

Internal data storage.

SD card 1 Gb (more than a year of data).

Environmental conditions.

5 to 40 °C
5 to 95 % RH.

Power.

12 V DC, 200 mA. (Small box)
110-240 VAC 50/60 Hz 400 W (Climate controlled enclosure)

Software.

Configuration , calibration,
and data download
(Free of charge).

Max number of GAS sensors.

Up to four.

Dimensions.

280x165x120 (HxWxD).

OPTIONS

Power options

Solar panel.
Battery charger.

Communications

USB (standard),
GPRS, UMTS, Zigbee, Ethernet, Bluetooth (optional).
Cloud based servers.

Other sensors

Noise meter
Meteorological sensors.
Visibility

Enclosures

Multiple options of enclosures
Tailored to final customer.
Climate control for harsh environments

Specifications CO

Response time < 60 s
Noise < 0.1 ppm
Range 0-1000 ppm
Detection limit 0.2 ppm
Zero drift 0.1 ppm/year
span drift <10% /year
Cell operating life 36 months
Temperature Range -30 to + 50°C
RH Ranged (cte) 15 to 90 %

Specifications NO

Response time < 120 s
Noise < 15 ppb
Range 0-20 ppm
Detection limit 15 ppb
Zero drift 0 a 50 ppb/year
span drift 0 a -20% /year
Cell operating life 24 months
Temperature Range 30 to + 50°C
RH Range 15 to 85 %

Specifications H2S

Response time < 60 s
Noise < 5 ppb
Range 0-100 ppm
Detection limit 10 ppb
Zero drift 100 ppb/año
span drift <20% /año
Cell operating life 24 months
Temperature Range -30 to + 50°C
RH Range 15 to 90 %

Specifications NO2

Response time < 120 s
Noise < 15 ppb
Range 0-20 ppm
Detection limit 15 ppb
Zero drift 0 to 20 ppb/year
Span drift 0 to -20% /year
Cell Operating life 18 months
Temperature Range -30 a + 50°C
RH Range 15 to 85 %

Specifications Sound Meter

Class 1
Range 20 a 137 dB
Resolution 0.1 dB
Ponderation A,B,C,Z en paralelo
Ref. Level 94 dBa
Power ON time 10s
Only Available in Climate controlled enclosure

Specifications SO2

Response time < 120 s
Noise < 5 ppb
Range 0-100 ppm
Detection limit 20 ppb
Zero drift 0 a 20 ppb/year
span drift 0 a -15% /year
Cell operating life 36 months
Temperature Range -30 a + 50°C
RH Ranged 15 a 90 %

Specifications VOC

LDL < 5 ppb Isobutilene
Sensitivity 20 mV/ppm Isobutilene
Range 0-50 ppm
Linearity 2 %
Response time < 30 s
Span drift 0 a -15% /year
Lamp operating life 5000 h
Temperature Range -40 to + 65°C
RH Range 0 to 95 %

Specifications O3+NO2*

Response time < 45 s
Noise < 15 ppb
Range 0-20 ppm
Detection limit 15 ppb
Zero drift 0 to 20 ppb/year
Span drift 0 to -20% /year
Cell Operating life 18 months
Temperature Range -30 a + 50°C
RH Range 15 to 85 %

Note on O3+NO2 sensor. This a combined sensor for both parameters. For O3 only measurements is not recommended for traffic areas where NO2 concentrations can be high.



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