AIROPTIC™
REAL TIME GAS ANALYZERS

Gas Eye HCHO Specification

GasEye HCHO – remote Mid-IR spectrometer for analysis of formaldehyde vapor concentration:

Application

Measurement method: Tunable Diode Laser Spectroscopy

Source: Mid-IR laser (Class 1)

Detection limit: 40 ppbv @ 1 meter path, T=23ºC and p=1 atm in air

Precision: +/- 40 ppbv @ 1 meter or +/-2% of measured value whichever is larger

Drift: negligible

Minimum optometric response time: 0,5 sec

Measurement range: 0-50000 ppbv (@ 1 meter path)

Factory calibrated at sample gas pressure: 1 atm

Factory calibrated at sample gas temperature: T=23ºC

Electrical

Power input: 24V

(Optional 100-240 VAC, 50-60 Hz)

Power consumption: <10 W

Mechanical

Path length 1-20 m

Optical path alignment: built-in red laser

Dimensions (analyzer unit)

L=435 mm, W=142 mm, H=68 mm

Weight (analyzer unit)

2400 g

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Communication

Ethernet (RJ-45), included Windows 7/8 logger for real-time acquisition of formaldehyde concentration and optical transmission, possibility to export log data to MATLAB format

Environmental

Ambient temperature: 5-50 ºC

Ambient pressure: 800-1200 hPa

Ambient humidity: RH<85%, non-condensing

Options

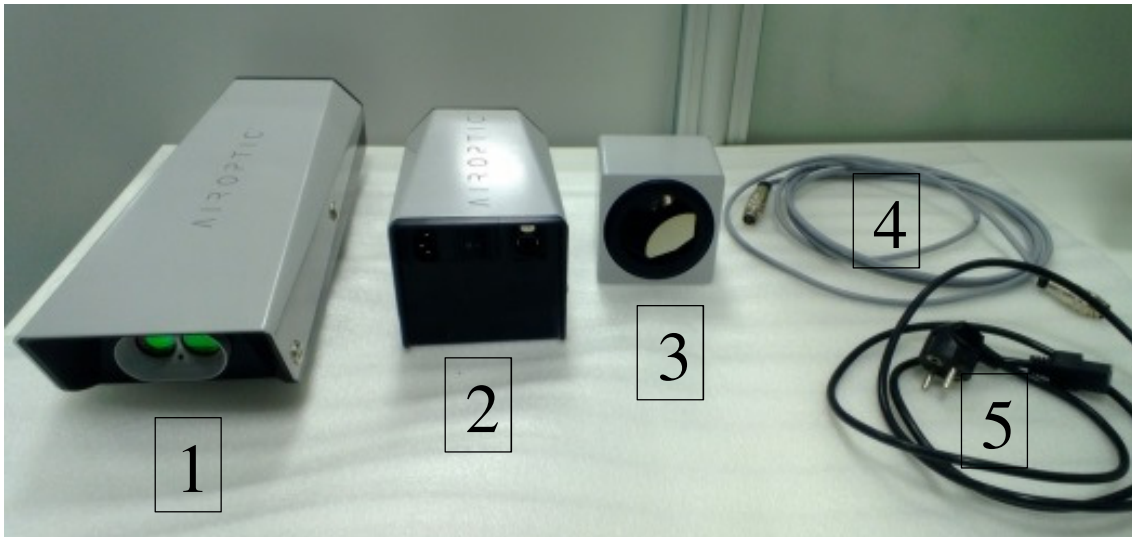
Extended gas sample pressure range

Extended gas sample temperature range

Extended measurement range

Additional outputs (2x Analog Out , 2x Digital Out, Modbus)

Ambient temperature: -20 ºC- 55 ºC



1- Analyzer unit
2- Power supply 100-240 VAC, 50-60 Hz (optional)
3- Retro reflector
4- Communication cable
5- Power cable

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