

Air quality AQ 110

KEY POINTS

- Easy to use
- hold-min-max Function
- Selection of units
- Adjustable backlight

TECHNICAL FEATURES

Measuring elements	CO₂ : infrared sensor Temperature : NTC
Display	4 lines, LCD technology. Sizes 50 x 36 mm 2 lines of 5 digits with 7 segments (value) 2 lines of 5 digits with 16 segments (unit)
Cable	Retractable, length. 0.45 m, extension : 2.4 m
Housing	ABS, protection IP54
Keypad	5 keys
Conformity	Directives CEM 2004/108/CE and NF EN 61010-1
Power supply	4 batteries AAA LR03 1.5 V
Battery life	20 hours
Ambience	Neutral gas
Operating temperature	From 0 to +50 °C
Storage temperature	From -20 to +80 °C
Auto shut-off	Adjustable from 0 to 120 min
Weight	340 g

SPECIFICATIONS

Measuring units	Measuring range	Accuracy ¹	Resolution
CO₂			
ppm	From 0 to 5000 ppm	±3 % of reading ±50 ppm	1 ppm
Temperature			
°C, °F	From - 20 to +80 °C	±0.4% of reading ±0.3°C	0.1°C

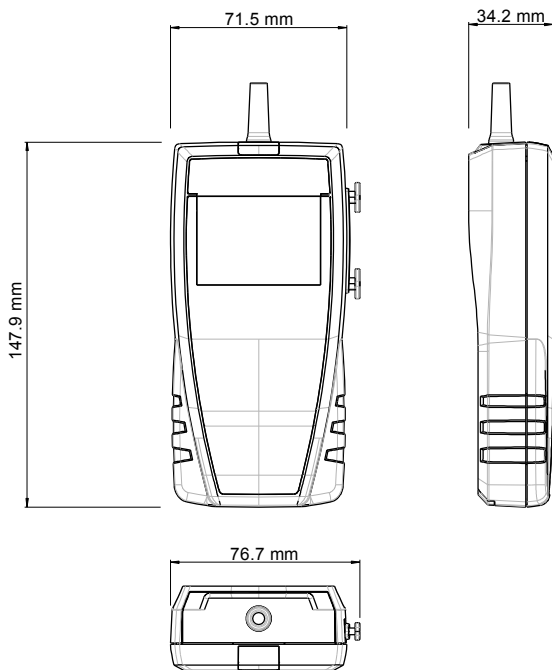


FUNCTIONS

- Selection of temperature units
- Hold function
- Display of minimum and maximum values
- Configurable Auto shut-off
- Backlight

¹All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.
*In accordance with NF X 15-113 and the Hyfometers 2000/2001 charter, FEMG calculated with a coverage factor of 2 is ±2,68 % HR between 15 and 25°C on the measuring range from 3 % to 98 %. The sensor drift is less than 1 % HR/an.

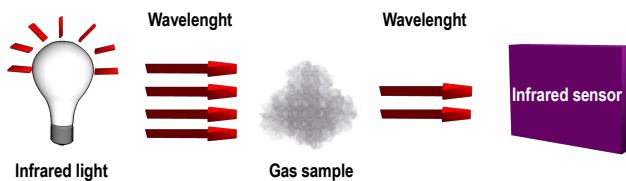
DIMENSIONS



OPERATING PRINCIPLES

Non dispersive infrared absorbance

All the gases absorb the light at a specific wavelength, a part of the light emitted by the infrared source is absorbed by the gas sample. The quantity of light read by the infrared sensor is inversely proportional to the CO₂ concentration.



Thermometer : CTN Probe

Negative temperature coefficient probes are thermistors with a resistance that decreases with temperature according to the equation below:

$$R_{(T)} = R_{(T_0)} e^{\left(\frac{\alpha}{100} \times (T_0 + 273.15)^2 \times \left(\frac{1}{T + 273.5} - \frac{1}{T_0 + 273.5} \right) \right)}$$

RT= resistance sensor value at temperature T
 R(T₀)= resistance sensor value at reference temperature T₀
 T and T₀ in °C
 α and T₀ sensor specific constants

SUPPLIED WITH

Instruments are supplied with :

- Calibration certificate
- Transport case



ACCESSORIES

CQ 15 : Magnetic protective housing



RTE : Telescopic extension, length 1m, with index at ±90°

MT 51 : ABS Transport case



MAINTENANCE

We carry out calibration, adjustment and maintenance of your instruments to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry a yearly checking.

GUARANTEE

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

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