

Air quality AQ 110

KEY POINTS

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

TECHNICAL FEATURES

Measuring elements	CO ₂ : 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
European directives	2004/108/EC EMC ; 2006/95/EC Low Voltage ; 2011/65/EU RoHS II ; 2012/19/EU WEEE
Power supply	4 batteries AAA LR03 1.5 V
Battery life	20 hours
Ambience	Neutral gas
Conditions of use (°C, %RH, m)	From 0 to +50 °C. In non condensing conditions. From 0 to 2000 m.
Storage temperature	From -20 to +80 °C
Auto shut-off	Adjustable from 0 to 120 min
Weight	340 g

SPECIFICATIONS

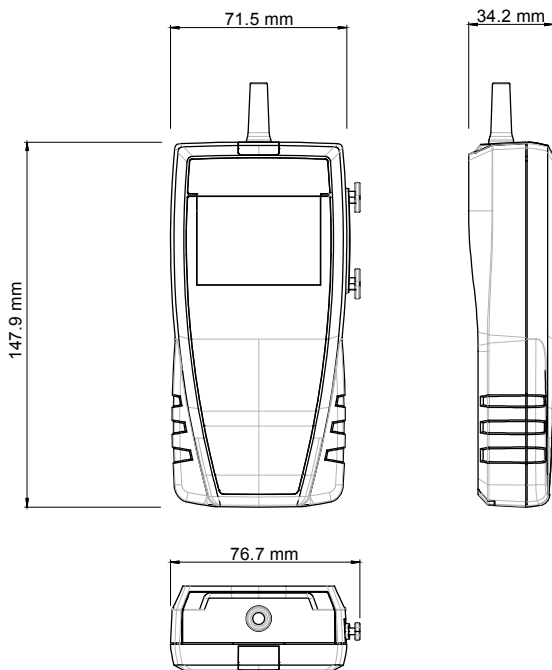
Measuring units	Measuring range	Accuracy ¹	Resolution
CO₂			
ppm	From 0 to 5000 ppm	±3 % of reading ±50 ppm	1 ppm
Temperature			
°C, °F	From - 20 to +80 °C	±0.4% of reading ±0.3°C	0.1°C



FUNCTIONS

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

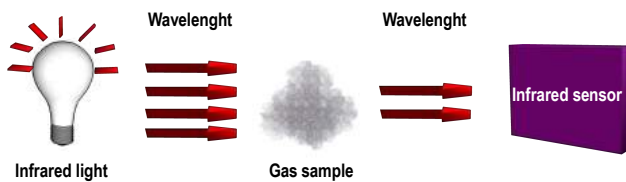
DIMENSIONS



OPERATING PRINCIPLES

Non dispersive infrared absorbance

All the gases absorbs the light at a specific wavelength, a part of the light emitted by the infra-red 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



*Except class 110 S

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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 Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29
 e-mail : export@kimo.fr