

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Air quality AQ 110

CE

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		
Conformity	Directives EMC 2004/108/CE and 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		

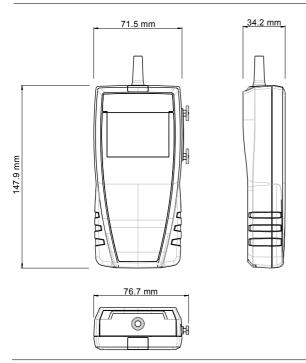
SPECIFICATIONS

Measuring units	Measuring range	Accuracy ¹	Resolution
CO ₂			
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

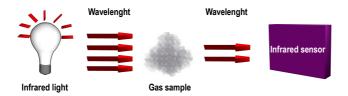
- Selection of temperature units
- Hold function
- Display of minimum and maximum values
- Configurable Auto shut-off
- Backlight



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:

$$R_{(T)} = R_{(T0)} e^{-(\frac{\alpha}{100} \times (T_0 + 273.15)^2 \times (\frac{1}{T + 273.5} - \frac{1}{T_0 + 273.5}))}$$

RT= resistance sensor value at temperature T R(T $_0$)= resistance sensor value at reference temperature T $_0$ T and T $_0$ in °C α and T $_0$ sensor specific constants

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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