



Supplied with Calibration certificate

AQ 200

Air quality

New



Advantages

- Interchangeable measurement modules
- User-friendly (Joystick navigation)
- Large graphic display
- Blue backlight
- Up to 8,000 measurement points
- Up to 6 measurements simultaneously
- Instrument/PC wireless communication
- Wireless probes

Connection



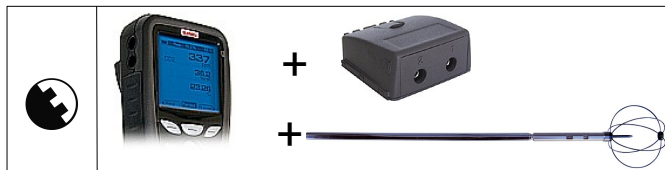
- Interchangeables measurement modules**
1 instrument = more than 1 range and 1 parameter available.
- Wireless connection**
Instrument / PC
Instrument / probe
- Smart-plus system**
Wireless or wired probes automatically recognized when connected to the instrument.

The instrument

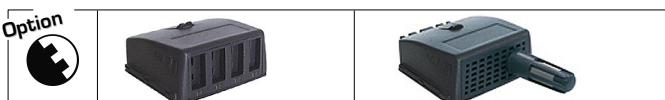
- AQ 200 – Current voltage module – CO₂/Temp. probez
- AQ 200P – Current voltage module – CO₂/Temp./Hygrometry probe



- AQ 200 O – Current voltage module – Omnidirectional probe
Air velocity/Hygro/Temp



- Thermocouple temperature module – 4 channels**
- Climatic conditions module**
Hygro/Temp./Air pressure



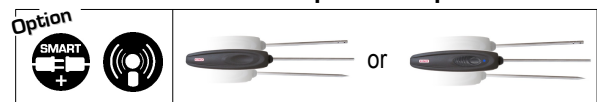
CO / temperature probe
from 0 to 500 ppm / from -20°C to +80°C

CO₂ / temperature probe
from 0 to 5,000 ppm / from -20°C to +80°C

CO₂ / temperature / Hygrometry probe
from 0 to 5,000 ppm / from -20°C to +80°C / from 5 to 95%RH



Wired or wireless temperature probe



Functions



Air quality

CLIMATIC CONDITIONS MODULE

- Selection of units
- Minimum / maximum values and hold function
- Storage



AIR QUALITY PROBES :

CO / temperature

CO₂ / temperature

CO₂ / temperature / Hygrometry

- Audible Alarm (2 setpoints)
- Selection of units
- Minimum / maximum values and hold function
- Storage

OMNIDIRECTIONAL PROBE

- Air velocity
- Temperature
- Hygrometry



Thermometer

THERMOCOUPLE MODULE

- Dynamic delta T
- Audible Alarm (lower and upper setpoints)
- Selection of units
- Minimum / maximum values and hold function
- 4-channel storage of thermocouple K, J and T
- Calculation of U-value

TEMPERATURE PROBES

- Dynamic delta T
- Audible Alarm (lower and upper setpoints)
- Selection of units
- Minimum / maximum values and hold function
- Storage

Current / voltage module

- Adjustable ranges
- Minimum / maximum values and hold function
- Storage

Datalogger-10

- Multi-parameters recording
- Manual and automatic storage
- Memory : up to 8,000 measurement points or 50 datasets
- User-friendly with printing of customized report
- Management of instruments pool, follow-up of calibration periods
- Intervention planning
- Wired or wireless interface



Technical features

Sensing elements

Air quality probe

CO₂ : NDIR infrared sensor (Non dispersive- infrared)

CO : Electrochemical sensor

Temperature : Pt100 class 1/3 Din

Hygrometry : capacitive hygrometry sensor

Climatic conditions module

Hygrometry : capacitive hygrometry sensor

Temperature : semiconductor temperature sensor

Air pressure : capacitive sensor

Thermocouple probes : type K, J and T class 1

Pt100 Smart-plus probes : Pt100 class 1/3 Din

Omnidirectionnal probe

Air velocity : Thermistance with a negative temperature coefficient

Hygrometry/Temps.: capacitive sensor, Pt100 1/3 DIN

AQ200 connection

On the top :

2 secured mini-DIN connectors for SMART-Plus probes

Left side :

1 USB port for KIMO cable only

1 power supply plug

Interchangeable measurement modules

Thermocouple module :

Connection : 4 inputs for compensated miniature

plug of thermocouple type K, J or T Class 1

(as per IEC 584-3 norm)

Current / voltage module :

Connection : 2 stereo jacks

Display

Graphic display 128x128 pixels

Dim. 50 x 54 mm

Blue backlight

Display of 6 measurements (including 4 simultaneously)

Housing

ABS shock-proof

IP54

Keypad

Metal-coated

5 keys

1 joystick

Conformity

Electromagnetical compatibility

(NF EN 61326-1 norm)

Power supply

4 alkaline batteries 1,5V LR6

Operating environment

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

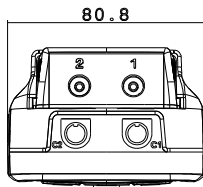
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Languages

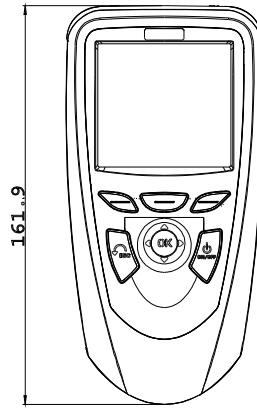
French, English, Dutch, German, Italian, Spanish, Portuguese, Swedish, Norwegian, Finn, Danish

Dimensions

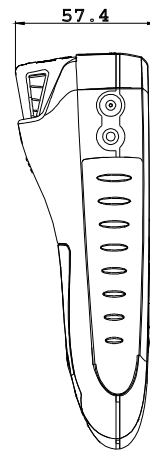
• Top view



• Front view



• Side view



Specifications

	Measuring units	Measuring range	Accuracy*	Resolutions
CURRENT / VOLTAGE				
	V, mA	From 0 to 2,5 V From 0 to 10 V From 0 to 4/20 mA	±2mV ±10mV ±0.01mA	0,001 V 0,01 V 0,01 mA
THERMOCOUPLE (See related datasheet)				
	°C, °F	K: From -200 to 1300°C J: From -100 to 750°C T: From -200 to 400°C	±1,1°C or ±0,4% reading*** ±0,8°C or ±0,4% reading*** ±0,5°C or ±0,4% reading***	0,1 °C 0,1 °C 0,1 °C
Climatic conditions				
	Hygro.	%RH	From 5 to 95%HR	0,1 %RH
	Temp.	°C, °F	From -20 to +80°C	±1,8%RH (from 15°C to 25°C) Factory calibration uncertainty: ±0,88 %RH Temperature dependence : ±0.04 x (T-20) %RH (if T<15°C or T>25°C) ±0.4% of reading ±0.3°C
	Air pressure	hPa	From 800 to 1100 hPa	±3 hPa 1 hPa
CO / Temperature				
	Temp. CO	°C, °F ppm	From -20 to +80°C From 0 to 200 ppm From 200 to 500 ppm	±0.3% of reading ±0.25°C ±3 ppm ±1.5% of reading 0,1 °C 0,1 ppm
CO₂ / Temperature				
	Temp. CO ₂	°C, °F ppm	From -20 to +80°C From 0 to 5000 ppm	±0.3% of reading ±0.25°C ±3% of reading or ±50ppm 0,1 °C 1 ppm
CO₂ / Temperature / Hygrometry				
	Temp. CO ₂ Hygro.	°C, °F ppm %RH	From -20 to +80°C From 0 to 5000 ppm From 5 to 95%HR	±0.3% of reading ±0.25°C ±3% of reading or ±50ppm See Climatic conditions module 0,1 °C 1 ppm 0,1 %RH
Omnidirectional probe (Air velocity / Temperature / Hygrometry)				
	Air velocity Temp. Hygro.	m/s °C, °F %RH	From 0 to 5 m/s From -20 to +80°C From 5 to 95%HR	±3% of reading ±0.05 m/s ±0.3% of reading ±0.25°C See Climatic conditions module 0,01 m/s 0,1 °C 0,1 %RH
Pt100 Smart-plus or wireless probes (See related datasheet)				
		°C, °F	From -50 to 250°C (According to model)	±0,3% of reading ±0.25°C (According to model) 0,01 °C

*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

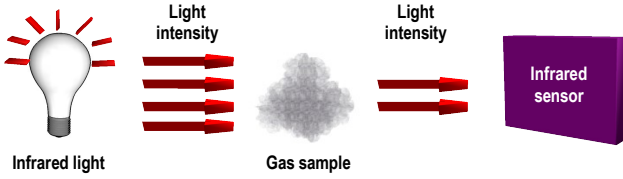
** As per NFX 15-113 and the Charter 2000/2001 HYGROMETERS, GAL (Guaranteed Accuracy Limit) which has been calculated with a coverage factor value of 2 is ±2.88%RH between 18 and 28°C on the measuring range from 5 to 95%RH. Sensor drift is less than 1%RH/year.

***The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. Only the bigger value is considered.

Working principle

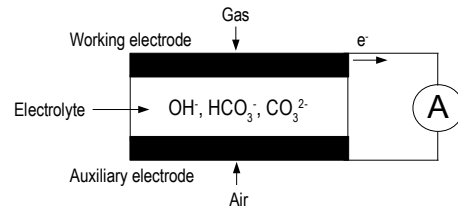
NDIR - Non dispersive infrared absorbance

A gas absorbs light at a specific wavelength, some of the intensity emitted by the infrared source is absorbed by the gas sample. The amount of light read by the IR sensor is inversely proportional to CO₂ concentration.



Electrochemical sensor

Electrochemical cell consists of a container, 2 electrodes, connexion wires and an electrolyte. Carbon monoxide is oxidised at one electrode to CO₂ whilst oxygen is consumed at the other electrode. The current produced is proportional to CO concentration.



Supplied with ...

● Supplied with ○ Option

DESCRIPTION	AQ 200	AQ 200 P	AQ 200 S	AQ 200 O
Current / voltage	●	●	●	●
Thermocouple temperature module	○	○	○	○
Climatic condition module	○	○	○	○
CO ₂ / temperature probe	●	○	○	○
CO / temperature probe	○	○	○	○
CO ₂ / temperature / Hygrometry probe	○	●	○	○
Thermocouple K, J and T probe	○	○	○	○
SMART-Plus Pt100 probe	○	○	○	○
Wireless Pt100 probe	○	○	○	○
Omnidirectional probe (Air velocity/temperature/hygrometry)	○	○	○	●
8 rechargeable batteries with charger	○	○	○	○
Current / voltage cable	●	●	●	●
Calibration certificate	●	●	○	●
Transport case	●	●	○	●

Large choice of temperature probes
(See related datasheet) :

- ambient
- contact
- penetration
- Food industry penetration
- General use



Accessories (See related datasheet)

Datalogger-10 Datalogger-10 PC software for data recording and processing. Wired (LPCF) or wireless (LPCR) interface. 	KPIJ 20 – 50 – 100 – 200 - 600 Ammeter clamp with PVC cable lg. 2m and jack connector. 	RTS Telescopic extension, length 1 m, bent at 90° for measuring probe. 
CE 200 Hands-free protective cover 	GST Silicone heat conductive grease for temperature probes 	ADS Adaptor for power supply 230 Vac 
JAC Set of 4 LR6 batteries 	CHA 4 batteries charger 	CTC-P Input current or voltage input PVC cable lg 2 m and jack connector 

Warranty period

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

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