



E Instruments International 2013 IAQ Monitors Catalog



www.E-Inst.com

P: 215-750-1212 F: 215-750-1399

A: 402 Middletown Blvd, Ste 216 Langhorne, PA 19047



Supplied
with
Calibration
certificate

AMI 300

Multifunctional IAQ Analyzer



Connection



Interchangeable measurement modules

1 instrument = more than 1 range and 1 parameter available.



Wireless connection

Instrument / PC
Instrument / Probe



Smart-plus system

Probes automatically recognized when connected to the instrument.

The ALL-IN-ONE TOOL.....

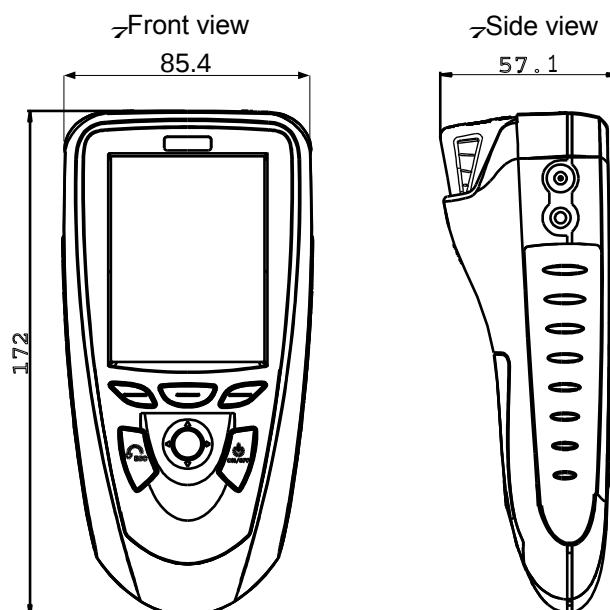
AMI 300 - Build Your Own Kit



CE



Dimensions (mm)



Functions



Manometer

PRESSURE

- Automatic or manual self-calibration
- Selection of units
- Pressure integration (0 to 9)
- Point/point, automatic point/point, automatic average
- Minimum / maximum values, Hold, standard deviation
- Storage



AIR VELOCITY AND AIRFLOW

- Selection of Pitot tube, Debimo blades, Hot-Wire or factor for other sensing elements
- Selection of duct type
- Selection of units
- Point/point, automatic point/point, automatic average
- Manual or automatic temperature balancing
- Manual air pressure balancing
- K2 factor
- Minimum / maximum values, hold, standard deviation
- Storage



HYGROMETER

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

PSYCHROMETER

- Dew point, wet temperature, enthalpy, absolute temperature
- Minimum / maximum values and hold function
- Storage

WGBT index

- For hygrometry probe with black ball.
- Calculation of comfort index inside / outside
- Storage



Air Quality

CLIMATIC CONDITIONS MODULE

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



AIR QUALITY PROBES

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

Current / voltage module

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



Thermometer

Thermocouple module, Pt100 and thermocouple temperature probes

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

Datalogger-10



- Multi-parameters recording
- Manual and automatic storage
- Memory : up to 12,000 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

Pressure modules

- Piezoresistive sensor
- Overpressure allowed ± 500 Pa : 250 mbar
- Overpressure allowed ± 2500 Pa : 500 mbar
- Overpressure allowed $\pm 10,000$ Pa : 1,200 mbar
- Overpressure allowed ± 500 mbar : 2 bar
- Overpressure allowed $\pm 2,000$ mbar : 6 bar

Hotwire : Thermistance with a negative temperature coefficient.

Ambient temperature : Pt100 1/3 Din.

Ø 70 and 100 mm vane probes : Hall effect sensor

Ambient temperature : Pt100 class A.

Ø 14 mm vane probe : Proximity sensor

Ambient temperature : Pt100 class A.

Hygrometry/Temp. Probe : capacitive sensor, Pt100 1/3 DIN

Thermocouple probes : type K, J and T class 1

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

Climatic conditions module

Hygrometry : capacitive sensor

Temperature : semiconductor sensor

Air pressure : piezoresistive sensor

Air quality probes

CO₂ : NDIR sensor

CO : electrochemical sensor

Temperature : Pt100 class A

Hygrometry : capacitive sensor

Climatic conditions module

Hygrometry : capacitive sensor

Temperature : semiconductive sensor

Air pressure : piezoresistive sensor

Multifunction probe

Air velocity : Thermistance with a negative temperature coefficient.

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

Tachometry probe

Optical : optical sensor

Contact : optical probe with ETC adaptor

Instrument connections

On the top :

2 secured mini-DIN connectors for SMART-Plus probes

Left side :

1 USB port for EIG cable only

1 power supply plug

Module connections

Thermocouple

4 inputs for compensated miniature plug of thermocouple type K, J or T Class 1 (as per IEC 584-3norm)

Pressure

2 pressure connectors Ø 6.2 mm made of nickelled brass.

2 threaded pressure connectors Ø 4.6 mm made of nickelled brass

+ 1 thermocouple temperature input for miniature connectors

Current / voltage module

2 stereo jacks

Display

Graphic display 320x240 pixels

Dim. 70 x 52 mm, color display

Display of 6 measurements (including 4 simultaneously)

Housing

Keypad

IP54, ABS shock-proof

Conformity

Metal-coated, 5 keys, 1 joystick

Electromagnetical compatibility

(NF EN 61326-1 norm)

Power supply

4 alkaline batteries 1.5V LR6 Included

Operating environment

Neutral gas

Operating temperature

from 0 to 122°F (0 to 50°C)

Storage temperature

from 0 to 176°F (-20 to +80°C)

Auto shut-off

adjustable from 0 to 120 min

Weight

13.4 oz. (380g)

Languages

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

Specifications

Specifications		Measuring Units	Measuring Range	Accuracy*	Resolutions
PRESSURE					
	InH ₂ O, Pa, mmH ₂ O, mbar, hPa, mmHg, DaPa		from 0 to ±500 Pa from 0 to ±2500 Pa from 0 to ±10,000 Pa from 0 to ±500 mBar from 0 to ±2000 mBar	± 100 Pa : ±0.2% reading ±0.8Pa, beyond ±0.2% reading ±1.5Pa, ±0.2% of reading ±2Pa ±0.2% of reading ±10Pa ±0.3% of reading ±0.5mBar ±0.3% of reading ±2mBar	0.1 Pa from -100 to +100 Pa, 1 Pa beyond 1Pa 1Pa 0.1mBar 1mBar
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					
	°C, °F		K : from -200 to +1,300°C J : from -100 to +750°C T : from -200 to +400°C	±1.1°C or ±0.4% of reading** ±0.8°C or ±0.4% of reading** ±0.5°C or ±0.4% of reading**	0.1 °C 0.1 °C 0.1 °C
CLIMATIC CONDITIONS					
	Hygro. Temp. Air pressure	%RH °C, °F hPa	from 5 to 95%RH from -20 to +80°C from 800 to 1100 hPa	See datasheet for interchangeable measurement modules	0.1 % RH 0.1 °C 1 hPa
HOTWIRE - Standard and/or Telescopic -					
	Air velocity Temperature Airflow	m/s, fpm, Km/h °C, °F m ³ /h, cfm, l/s, m ³ /s	from 0.15 to 3 m/s from 3 to 30 m/s from -20 to +80°C from 0 to 99,999 m ³ /h	±3% of reading ±0.03 m/s ±3% of reading ±0.1 m/s ±0.3% of reading ±0.25°C ±3% of reading ±0.03*area(cm ²)	0.01 m/s 0.1 m/s 0.1 °C 1 m ³ /h
Ø 100 mm VANE PROBE					
	Air velocity Temperature Airflow	m/s, fpm, Km/h °C, °F m ³ /h, cfm, l/s, m ³ /s	from 0.25 to 3 m/s from 3 to 35 m/s from -20 to +80°C from 0 to 99,999 m ³ /h	±3% of reading ±0.1m/s ±1% of reading ±0.3m/s ±0.4% of reading ±0.3°C ±3% of reading ±0.03*area (cm ²)	0.01 m/s 0.1 m/s 0.1 °C 1 m ³ /h
Ø 70 mm VANE PROBE					
	Air velocity Temperature Airflow	m/s, fpm, Km/h °C, °F m ³ /h, cfm, l/s, m ³ /s	from 0 to 3 m/s from 3 to 35 m/s from -20 to +80°C from 0 to 99,999 m ³ /h	±3% of reading ±0.1m/s ±1% of reading ±0.3m/s ±0.4% of reading ±0.3°C ±3% of reading ±0.03*area (cm ²)	0.1 m/s 0.1 °C 1 m ³ /h
Ø 14 mm VANE PROBE					
	Air velocity Airflow Temperature	m/s, fpm, Km/h m ³ /h, cfm, l/s, m ³ /s °C, °F	from 0.8 to 3 m/s from 3 to 40 m/s from 0 to 99,999 m ³ /h from -20 to +80°C	±3% of reading ±0.1m/s ±1% of reading ±0.3m/s ±3% of reading ±0.03*area (cm ²) ±0.4% of reading ±0.3°C	0.1 m/s 1 m ³ /h 0.1 °C
PITOT TUBE					
	Air velocity Airflow	m/s, fpm, Km/h, mph m ³ /h, cfm, l/s, m ³ /s	from 2 to 5 m/s from 5.1 to 100 m/s from 0 to 99,999m ³ /h	±0.3 m/s ±0.5% of reading ±0.2m/s ±0.2% of reading ±1% PE	0.1 m/s 1 m ³ /h
DEBIMO blades					
	Air velocity Airflow	m/s, fpm, Km/h, mph m ³ /h, cfm, l/s, m ³ /s	from 4 to 20 m/s from 21 to 100 m/s from 0 to 99,999m ³ /h	±0.3 m/s ±1% of reading ±0.1m/s ±0.2% of reading ±1% PE	0.1 m/s 0.1 m/s 1 m ³ /h
Air quality probes : CO / CO ₂ / temperature / Hygrometry					
	Temperature CO ₂ CO Relative humidity	°C, °F ppm ppm %RH	from -20 to +80°C from 0 to 5000 ppm from 0 to 1,000 ppm from 5 to 95% RH	See related datasheet "Portable probes"	0.1 °C 1 ppm 1 ppm 0.1 % RH
STANDARD HYGROMETRY probe					
	STD Relative humidity Absolute humidity / enthalpy Dew point Ambient temperature	% RH g/Kg / Kj/Kg °C _{td} , °F _{td} °C, °F	from 3 to 98 %RH According to temperature and hygrometry measuring ranges from -50 to +80°C _{td} from -20 to +80°C	See related datasheet "Portable probes"	0.1 % RH 0.1 g/Kg 0.1 °C _{td} 0.1 °C
HIGH TEMPERATURE HYGROMETRY probe					
	H.T Relative humidity Absolute humidity / enthalpy Dew point Ambient temperature	% RH g/Kg / Kj/Kg °C _{td} , °F _{td} °C, °F	from 3 to 98 %RH According to temperature and hygrometry measuring ranges from -50 to +80°C _{td} from -40 to +180°C	See related datasheet "Portable probes"	0.1 %RH 0.1 g/Kg 0.1 °C _{td} 0.1 °C
TACHOMETRY probe (See datasheet "Portable probes")					
MULTIFUNCTION probes (See datasheet "Portable probes")					
Pt100 Smart-Plus probes (See related datasheet)					

*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.

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

Supplied with ...

● Supplied with ○ Option

DESCRIPTION	AMI 300
Pressure module from 0 to ± 500 Pa	○
Pressure module from 0 to ± 2500 Pa	○
Pressure module from 0 to ± 10000 Pa	○
Pressure module from 0 to ± 500 mBar	●
Pressure module from 0 to ± 2000 mBar	○
Current / voltage module w/ Cables	●
Thermocouple module	○
Climatic conditions module	○
2x1 m silicone tube $\varnothing 4 \times 7$ mm *	●
Stainless steel tips $\varnothing 6 \times 100$ mm *	●
Pitot tube $\varnothing 6$ mm, lg. 300 mm	○
Pitot tube $\varnothing 6$ mm, lg. 300 mm T	○
Pitot tube $\varnothing 6$ mm, lg. 300 mm S	○
Optical tachometry probe	○
ETC adaptor	○
Reflective tape	○
Standard hotwire	○
Straight extension for hotwire	○
Telescopic gooseneck-shaped hotwire	○
SMART-Plus $\varnothing 14$ mm vane probe	○
Telescopic SMART-Plus $\varnothing 14$ mm vane probe	○
SMART-Plus $\varnothing 70$ mm vane probe	○
Wireless $\varnothing 70$ mm vane probe	○
SMART-Plus $\varnothing 100$ mm vane probe	○
Wireless $\varnothing 100$ mm vane probe	○
SMART-Plus standard hygrometry probe	○
Wireless standard hygrometry probe	○
SMART-Plus high temperature hygrometry probe	○
Wireless high temperature hygrometry probe	○
SMART-Plus Pt100 temperature probe	○
Wireless Pt100 temperature probe	○
Thermocouple K, J and T probe	○
CO ₂ / temperature probe	○
CO / temperature probe	○
CO ₂ / temperature / Hygrometry probe	○
Air velocity/ Temperature / Hygrometry probe	○
PC Software, USB Cable & Memory	●
Calibration Certificate	●
Transport case	●

*Supplied w/ ANY choice of Pressure Modules



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.	BNF Hotwire cleaning spray	K 25 - 35 - 75 - 120 - 150 Airflow cones (See related datasheet)
CE 300 Hands-free protective cover	GST Silicone heat conductive grease for temperature probes	ADS Adaptor for power supply 120 Vac	See related datasheet Silicone tube & crystal flexible tube	See related datasheet Debimo airflow blades of different sizes
BN Black ball $\varnothing 150$ mm with junction for temperature probe $\varnothing 4.5$ mm. Further dimensions available.	RD 300 Straight extension for hotwire $\varnothing 10$ mm. lg. 300 mm	JAC Set of 4 LR6 batteries	CHA 4 batteries charger	

Warranty period

Instruments have 1-year guarantee for any manufacturing defect (return to our Service Department).

E Instruments International

P: 215-750-1212 F: 215-750-1399 A: 402 Middletown Blvd, Ste 216, Langhorne, PA 19047

www.E-Inst.com

AIR QUALITY Monitor

CO₂, CO, Temp, RH In ONE TOOL!

CE



Advantages

- Interchangeable measurement modules
- User-friendly (Joystick navigation)
- Large graphic display
- Large ICE BLUE backlight
- Up to 8,000 Data Memory Points
- Perform up to 6 measurements simultaneously
- Instrument/PC Communication
- Wireless probes Available

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

CO₂ / Temperature / Hygrometry (Humidity) Probe (STANDARD KIT - 19780)

from 0 to 5,000 ppm / from -4°F to +176°F / from 5 to 95% RH



Thermocouple temperature module - 4 channels



Climatic conditions module - Hygro/Temp./Air pressure

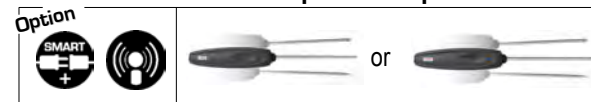


CO / temperature probe (AQ200 CO Kit - 19781)

from 0 to 1,000 ppm / from -4°F to +176°F



Wired or wireless temperature probe



Functions



Air Quality

CLIMATIC CONDITIONS MODULE

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



AIR QUALITY PROBES :

CO₂ / temperature / Hygrometry

(Standard Kit – 19780 – AQ200 P)

CO / temperature (Optional – 19781 - AQ200CO)

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



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

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 A

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

AQ200 connection

On the top :

2 secured mini-DIN connectors for SMART-Plus probes

Left side :

1 USB port for EIG 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-AA alkaline batteries 1.5V LR6 Included

Operating environment

Neutral gas

Operating temperature

from 0 to +122°F

Storage temperature

from -4 to +176°F

Auto shut-off

adjustable from 0 to 120 min

Weight

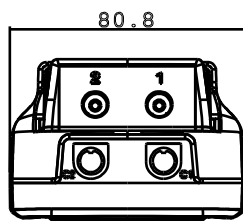
12 oz

Languages

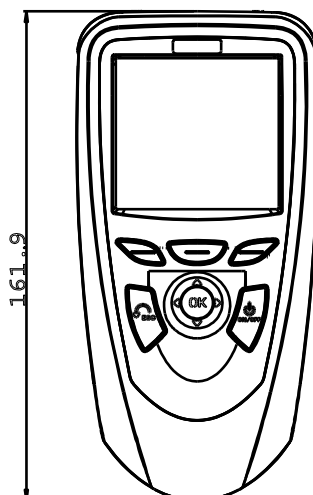
English, French, Dutch, German, Italian,
Spanish, Portuguese, Swedish, Norwegian, Finn, Danish

Dimensions (mm)

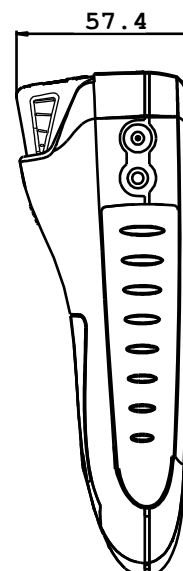
Top view



Front view



Side view



Specifications

	Measuring units	Measuring range	Accuracy*	Resolution	
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)					
	°F, °C	K: from -328 to 2372°F J: from -148 to 1382°F T: from -328 to 752°F	±1.1°F or ±0.4% reading*** ±0.8°C or ±0.4% reading*** ±0.5°F or ±0.4% reading***	0.1 °F 0.1 °F 0.1 °F	
Climatic conditions					
	Hygro.	%RH	from 5 to 95%RH	Accuracy** (Repeatability, linearity, hysteresis) : ±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)	0.1 % RH
	Temp.	°C, °F	from -4 to +176°F	±0.4% of reading ±0.3°F	0.1 °F
	Air pressure	hPa	from 800 to 1,100 hPa	±3 hPa	1 hPa
CO / temperature (Optional – AQ200CO – Part #: 19781					
	Temp. CO	°C, °F ppm	from -4 to +176°F from 0 to 100 ppm from 101 to 1,000 ppm	±0.4% of reading ±0.3°F ±5ppm ±3% of reading ±5ppm	0.1 °F 1 ppm
CO ₂ / temperature (optional)					
	Temp. CO ₂	°C, °F ppm	from -4 to +176°F from 0 to 5,000 ppm	±0.4% of reading ±0.3°F ±3% of reading ±50ppm	0.1 °F 1 ppm
CO ₂ / temperature / Hygrometry (Standard KIT – AQ200P – Part #: 19780					
	Temp. CO ₂ Hygro.	°C, °F ppm %RH	from -4 to +176°F from 0 to 5,000 ppm from 5 to 95%RH	±0.4% of reading ±0.3°F ±3% of reading ±50ppm See Climatic conditions module	0.1 °F 1 ppm 0.1 % RH
Pt100 Smart-plus or wireless probes (See related datasheet)					
	°C, °F	from -58 to 482°F (Accoding to model)	±0.3% of reading ±0.25°F (Accoding to model)	0.01 °F	

*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.

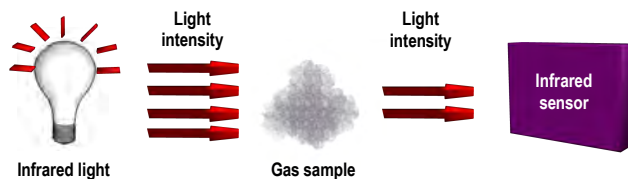
** As per NFX 15-113 and the Charter 2000/2001 HYGROMETERS, GAL (Guaranteed Accuracy Limit) which has been calculated with a coverage factor value of 2 is ±2.88%RH between 18 and 28°C on the measuring range from 5 to 95%RH. Sensor drift is less than 1%RH/year.

***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

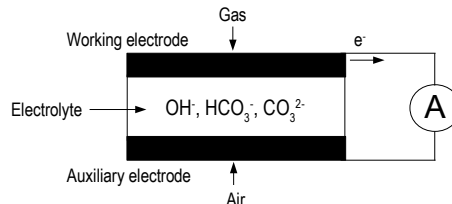
NDIR - Non dispersive infrared absorbance

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
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	○
8 rechargeable batteries with charger	○
Current / voltage cable	●
Calibration certificate	●
Hard Aluminum Transport case	●

Large choice of temperature probes
(See related datasheet) :

- Ambient
- Contact
- Penetration
- Food industry penetration
- General use



Accessories (See related datasheet)

Datalogger-10	KPIJ 20 – 50 – 100 – 200 - 600	RTS
Datalogger-10 PC software for data recording and processing. Wired (LPCF) or wireless (LPCR) interface.	Ammeter clamp with PVC cable lg. 2m and jack connector.	Telescopic extension, length 1 m, bent at 90° for measuring probe.
CE 200	GST	ADS
Hands-free protective cover	Silicone heat conductive grease for temperature probes	Adaptor for power supply 120 V
JAC	CHA	CTC-P
Set of 4 LR6 batteries	4 batteries charger	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 Service department for Repair/Evaluation/Calibration)

E Instruments International

P: 215-750-1212 F: 215-750-1399 A: 402 Middletown Blvd, Ste 216, Langhorne, PA 19047

www.E-Inst.com



Calibration
certificate



Functions

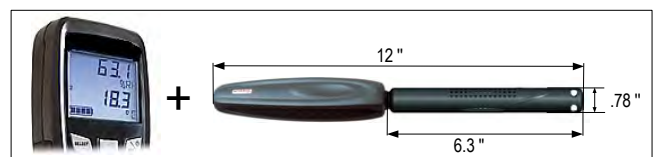
- CO₂ measurement and ambient temperature
- Selection of units
- Minimum and maximum values
- HOLD function
- Adjustable automatic shut-off
- Adjustable backlight

Technical features

Measuring element	CO ₂ : Infrared sensor. (Non dispersive- infrared sensor NDIR)
Display	Ambient temperature : Pt100 class A 2 lines, LCD technology. Sizes 50 x 34.9 mm. 1 line of 5 digits with 7 segments (value) 1 line of 5 digits with 16 segments (unit)
Housing	Shock-proof made of ABS, IP54 protection
Keypad	Metal-coated with 5 keys
Cable	retractable, length 18 inch (450 mm), up to 8 ft (2.4 m) when released
Conformity	electromagnetical compatibility (NF EN 61326-1 guideline)
Power supply	1 alkaline battery 9V 6LR61 included
Operating temperature	from 0 to 122°F
Storage temperature	from -4 to +176°F
Auto shut-off	adjustable from 0 to 120 min
Weight	6.7 oz
Languages	English, French



AQ100 - CO₂/ Temperature Probe - Fixed probe



Specifications

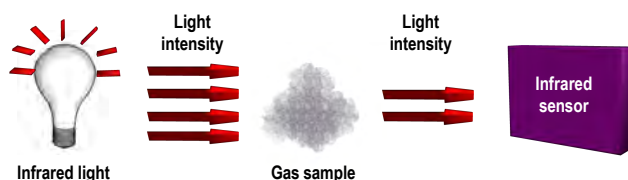
	Measuring units	Measuring ranges	Accuracy*	Resolutions
CO₂				
	ppm	From 0 to 5000 ppm	±3 % of reading ±50 ppm**	1 ppm
AMBIENT TEMPERATURE				
	°F, °C	from -4 to +176°F	±0.4% of reading ±0.3°F	0.1°F/C

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

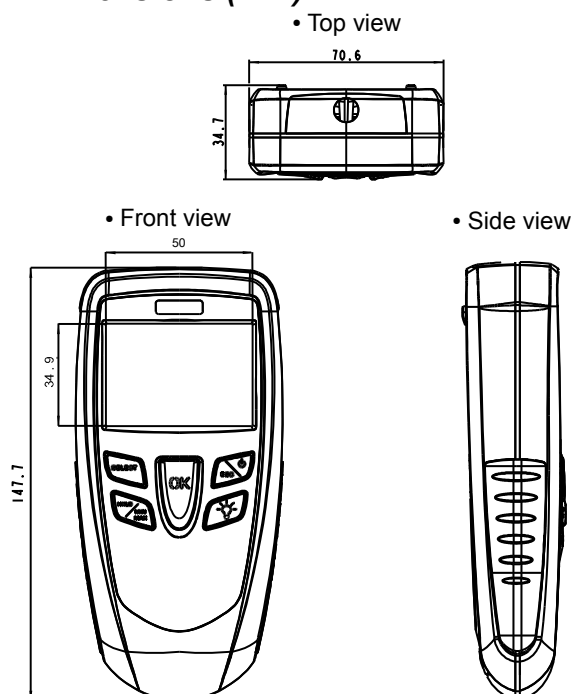
Working principle

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.



Dimensions (mm)



Supplied with ...

DESCRIPTION	AQ 100
Hard ABS Case	☐
Soft Vinyl Case	☒

● Included ○ Optional



Accessories (See related datasheet)

CE 100	RTS
Protective cover with magnet and holding system	Telescopic extension (for probe), 1m long and bent at 90°.

Warranty period

Instruments have 1-year guarantee for any manufacturing defect (return to our Service Department)



E Instruments International is a manufacturer & provider of a complete range of innovative instrumentation solutions including portable combustion gas analyzers, gas leak detectors, & IAQ monitors, which we export to over 50 countries worldwide.



For more information about our products please contact us at 215-750-1212 or visit our website at www.E-Inst.com