



Calibration
certificate

New
CE

AMI 300

Multifunction



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 multifunctions

AMI 300



AMI 300 CLA

and AMI 300 CRF



AMI 300 STD

and AMI 300 SRF



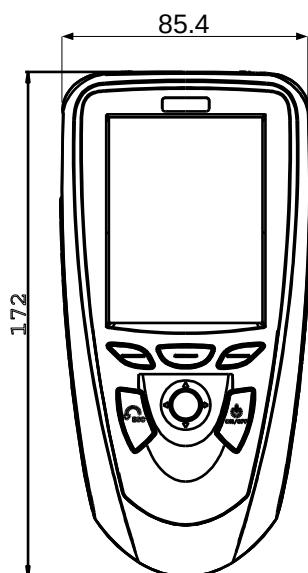
AMI 300 PRO

and AMI 300 PRF

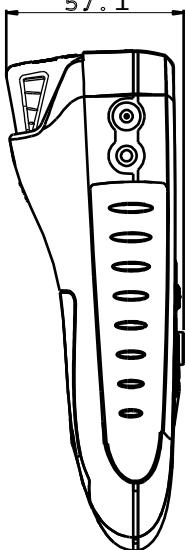


Dimensions

• Front view



• Side view



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, hotwire 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



Thermo-hygrometer

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

WBGT 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

OMNIDIRECTIONAL PROBE

- Air velocity
- Temperature
- Hygrometry

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
- Alarms (upper and lower setpoints)
- Storage
- Calculation of U-value

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 module

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

Omnidirectional probe

Air velocity : Thermistance with a negative temperature coefficient
Hygrometry/Temps. : capacitive sensor, Pt100 1/3 DIN

Tachometry probe

Optical : optical sensor

Contact : optical probe with ETC adaptor

Gas leak detection probe

Ch₄, hydrocarbon and LPG : electrochemical sensor

Instrument connections.....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

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

IP54, ABS shock-proof

Keypad.....Metal-coated, 5 keys, 1 joystick

Electromagnetical compatibility

(NF EN 61326-1 norm)

Power supply.....4 alcaline 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.....380g

Languages.....French, English, Dutch, German, Italian, Spanish,

Portuguese, Swedish, Norwegian, Finn, Danish

Specifications

	Measuring units	Measuring range	Accuracy*	Resolutions	
PRESSURE					
	Pa, mmH ₂ O, In WG, mbar, hPa, mmHg, DaPa, kPa	from 0 to ±500 Pa from 0 to ±2500 Pa from 0 to ±10,000 Pa	± 100 Pa : ± 0.2% reading ± 0.8Pa, beyond ± 0.2% reading ± 1.5Pa, ± 0.2% of reading ± 2Pa ± 0.2% of reading ± 10Pa	0.1 Pa from -100 to +100 Pa, 1 Pa beyond 1Pa 1Pa	
	mmH ₂ O, In WG, mbar, hPa, mmHg, DaPa, kPa, PSI bar, In WG, mbar, hPa, mmHg, kPa, PSI	from 0 to ±500 mBar from 0 to ±2000 mBar	± 0.2% of reading ± 0.5mBar ± 0.2% of reading ± 2mBar	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 interchangeable measurement modules	0.1 %RH 0.1 °C 1 hPa
HOTWIRE - Standard and 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 1 m/s from 0.15 to 3 m/s from 3.1 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 ± 0.03 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 0.01 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 0.3 to 3 m/s From 3.1 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 0.3 to 3 m/s From 3.1 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 3.1 to 25 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 99,999 m 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 99,999 m 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 / CO₂ / 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 500 ppm from 5 to 95%RH	See related datasheet "Portable probes"	0.1 °C 1 ppm 0,1 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	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")					
	OMNIDIRECTIONAL PROBE See datasheet "Portable probes"				
MULTIFUNCTION probes (See datasheet "Portable probes")					
Pt100 Smart-Plus probes (See related datasheet)					
	GAS LEAK DETECTION PROBE See datasheet "Portable probes"				

*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.

***Optional specific adjustment and calibration

Supplied with ...

● Supplied with ○ Option

DESCRIPTION	AMI 300	AMI 300 CLA	AMI 300 STD	AMI 300 PRO	AMI 300 CRF	AMI 300 SRF	AMI 300 PRF
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	●	●	○	○	○	●	○
Thermocouple module	○	○	○	○	○	●	○
Climatic conditions module	○	○	○	○	○	○	○
2x1 m silicone tube Ø 4 x 7 mm	○	○	●	●	○	●	●
Stainless steel tips Ø 6 x 100 mm	○	○	●	●	○	●	●
Pitot tube Ø 6mm, lg. 300 mm	○	○	●	○	○	●	○
Pitot tube Ø 6mm, lg. 300 mm T	○	○	●	●	○	●	○
Pitot tube Ø 6mm, lg. 300 mm S	○	○	○	●	○	○	●
Optical tachometry probe	○	○	○	○	○	○	○
ETC adaptor	○	○	○	○	○	○	○
Reflective tape	○	○	○	○	○	○	○
Hot wire with specific adjustment and calibration	○	○	○	○	○	○	○
Standard hotwire	○	●	●	○	●	●	○
Straight extension for hotwire	○	●	●	○	●	●	○
Telescopic gooseneck-shaped hotwire	○	○	○	●	○	○	●
SMART-Plus Ø 14 mm vane probe	○	○	○	○	○	○	○
Telescopic SMART-Plus Ø 14 mm vane probe	○	○	○	○	○	○	○
SMART-Plus Ø 70 mm vane probe	○	●	○	○	○	○	○
Wireless Ø 70 mm vane probe	○	○	○	●	●	○	○
SMART-Plus Ø 100 mm vane probe	○	○	○	●	○	○	○
Wireless Ø 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	○	○	○	○	○	○	○
Gas leak detection probe	○	○	○	○	○	○	○
Omnidirectional probe (air velocity/temperature/hyrometry)	○	○	○	○	○	○	○
Air velocity/ Temperature / Hygrometry probe	○	○	○	○	○	○	○
8 rechargeable batteries with charger	●	●	●	●	●	●	●
Calibration certificate	●	●	●	●	●	●	●
Transport case	●	●	●	●	●	●	●

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Accessories (See related datasheet)

Datalogger-10	KPIJ 20 – 50 – 100 – 200 – 600	RTS	BNF	K 25 - 35 - 75 - 85 - 120 - 150
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.	Hotwire cleaning spray	Airflow cones (See related datasheet)
CE 300	GST	ADS	See related datasheet	See related datasheet
Hands-free protective cover	Silicone heat conductive grease for temperature probes	Adaptor for power supply 230 Vac	Silicone tube and crystal flexible tube	Debimo airflow blades of different sizes
BN	RD 300	JAC	CHA	
Black ball Ø 150mm with junction for temperature probe Ø 4,5mm. Further dimensions available.	Straight extension for hotwire Ø 10 mm. lg. 300 mm	Set of 4 LR6 batteries	4 batteries charger	

Warranty period

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

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