

Technical Data Sheet

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



MP 200 Thermo-Anemo-Manometer







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

Connection





Interchangeable measurement modules

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



Wireless connection Instrument / PC



Smart-plus system

Probes automatically recognized when connected to the instrument.

The thermo-anemo-manometers

MP 200 P - ± 500 Pa MP 200 H - ± 500 mBar MP 200 M - ± 2500 Pa MP 200 HG - ± 2000 mBar MP 200 G - ± 10,000 Pa



Thermocouple temperature module - 4 channels





Current / voltage module



Pitot tubes - Large choice



Thermocouple temperature probes - Large choice



CO / Temperature probe





Kimo MP 200 P Thermo Anemometer Manometer
Kimo MP 200 M Thermo Anemometer Manometer
Kimo MP 200 G Thermo Anemometer Manometer
Kimo MP 200 H Thermo Anemometer Manometer
Kimo MP 200 HG Thermo Anemometer Manometer

Functions

Manometer



PRESSURE

- Automatic self-calibration with solenoid valve (MP200 P)
- Manual self-calibration (MP200 M, MP200 G)
- Selection of units
- Pressure integration (0 to 9)
- Point/point average
- Automatic point/point average
- Automatic average
- Minimum / maximum values, hold, standard deviation
- Storage



AIR VELOCITY AND AIRFLOW

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



Thermometer

PRESSURE MODULE

- See pressure function above
- Storage of 1 thermocouple K, J or T channel

THERMOCOUPLE MODULE

- Selection of units
- Audible alarm (2 setpoints)
- Large choice of thermocouple type
- Dynamic delta T, minimum / maximum values and hold function
- Storage of 4 thermocouple K, J or T channels

Current / voltage module

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



CO / temperature probe

- Audible alarm (2 setpoints)
- CO maximum
- 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



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Sensing elements____

Pressure module :

Piezo-resistive sensor

Overpressure allowed ±500 Pa : 250 mBar Overpressure allowed ±2500 Pa : 500 mBar Overpressure allowed ±10,000 Pa : 1200 mBar Overpressure allowed ±500 mBar : 2 Bar Overpressure allowed ±2,000 mBar : 6 Bar

Connection

2 pressure connectors Ø 6,2 mm made of nickelled brass 2 pressure threaded connectors Ø 4,6 mm of nickelled brass + 1 thermocouple temperature input for miniature connectors

Thermocouple module:

Connection: 4 thermocouple temperature inputs for thermocouple miniature connectors Type K, J or T Class 1 (IEC 584-3 norm)

Current / voltage module :

Connection: 2 stereo jacks

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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

Display

Graphic display 128x128 pixels

Dim. 50 x 54 mm Blue backlight

Display of 6 measurements (including 4 simultaneously)

Housing

Shock-proof made of ABS

IP54

Keypad

Metal-coated, 5 keys 1 joystick

Conformity_

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_

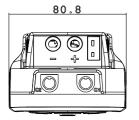
340 g

Languages

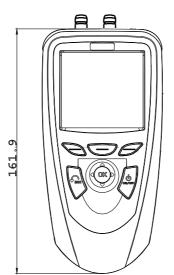
French, English, Dutch, German, Italian, Spanish, Portuguese, Swedish, Norwegian, Finn, Danish

Dimensions

• On the top

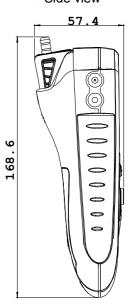






• Side view

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Specifications

	Measuring units	Measuring range	Accuracy*	Resolutions
PRESSURE				
	Pa, mmH ₂ O, In WG, mbar, hPa,	from 0 to ±500 Pa from 0 to ±2500 Pa	± 100 Pa: ±0.2% of reading ±0.8Pa, beyond ±0.2% of reading ±1,5Pa, ±0.2% of reading ±2Pa	0,1 Pa from -100 to +10 1 Pa beyond 1Pa
600	mmHg, DaPa, kPa	from 0 to ±10,000 Pa	±0.2% of reading ±10Pa	1Pa
0.0	mmH ₂ O, In WG, mbar, hPa, mmHg, DaPa, kPa, PSI	from 0 to ±500 mBar	±0.2% of reading ±0,5mBar	0,1mBar
	Bar, In WG, mbar, hPa, mmHg, kPa, PSI	from 0 to ±2,000 mBar	±0.2% of reading ±2mBar	1mBar
PITOT TUBE				
Air velocity	m/s, fpm, Km/h, mph	from 2 to 5 m/s	±0.3 m/s	0.1 m/s
		from 5.1 to 100 m/s	±0.5% of reading ±0.2m/s	0.1 m/s
Airflow	m³/h, cfm, l/s, m³/s	from 0 to 99,999m³/h	±0.2% of reading ±1% PE	1 m³/h
DEBIMO BLADE				
Air velocity	m/s, fpm, Km/h, mph	from 4 to 20 m/s	±0.3 m/s	0.1 m/s
All velocity	11170, 1pm, 10m/m, mpm	from 21 to 100 m/s	±1% of reading ±0.1m/s	0.1 m/s
Airflow	m³/h, cfm, l/s, m³/s	from 0 to 99,999m³/h	±0.2% of reading ±1% PE	1 m³/h
CURRENT / VOLTAG	E			
	V, mA	from 0 to 2.5 V	±2mV	0.001 V
00		from 0 to 10 V from 0 to 4/20 mA	±10mV ±0.01mA	0.01 V 0.01 mA
THERMOCOUPLE (S	See related datasheet)			
	۰۵ ۰۲	K :from -200 to 1300°C	. 4 400 0 40/	0.1 °C
The state of the s	°C, °F	J:from -100 to 750°C	±1.1°C or ±0.4% of reading** ±0.8°C or ±0.4% of reading**	0.1 °C
+		T:from -200 to 400°C	±0.5°C or ±0.4% of reading**	0.1 °C
CO / Temperature				
Temp.	°C, °F	from -20 to +80°C	±0.3% of reading ±0.25°C	0.1 °C
co	ppm	from 0 to 200 ppm from 200 to 500 ppm	±3 ppm ±1.5% of reading	0.1 ppm
Gas leak		1		
	ppm	From 0 to 10 000 ppm	. 200/ of full on the at 20, 20 of	1 ppm
	%LEL	(GPL : 0-1800) From 0 to 20%LEL	±20% of full scale at 20 °C at 65 %HR ± 5 %HR	0,01 %LEL
	%VOL	From 0 to 1%VOL		0,001 %VOL

^{*}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. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. **The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a percentage of the value concerned in °C, or by a

Working principle

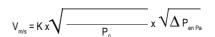
Piezoresistif sensor Piezoresistif sensor is a diaphragm formed on a silicone substrate, which bends with applied pressure and generates millivoltage or millicurrent proportional to the pressure applied.

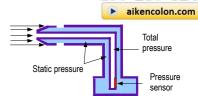
Pitot tube

Dynamic pressure is measured by Pitot tube : **Pd** = Total pressure – Static pressure

Velocity is calculated according to Bernoulli simplified formula.

Formula with temperature correction:





Po = Barometric pressure in Pa

- θ = Temperature in °C
- K = Pitot tube coefficient

Supplied with...

■ Supplied with ○ Option

				• • •	'
DESCRIPTION	MP 200 P	MP 200 M	MP 200 G	MP 200 H	MP 200 HP
Pressure module from 0 to ±500 Pa	•	1		! ! !	
Pressure module from 0 to ±2,500 Pa	 	•	1	 	
Pressure module from 0 to ±10,000 Pa		! ! !	•	 	
Pressure module from 0 to ±500 mBar	 	1		•	
Pressure module from 0 to ±2000 mBar		! ! !		 	•
Thermocouple temperature module	0	0	0	0	0
Current / Voltage module	0	0	0	0	0
SMART-Plus CO / Temperature probe	0	0	0	0	0
Pitot tube Ø 6mm, lg. 300 mm	0	0	0	0	0
Pitot tube Ø 6mm, lg. 300 mm T	0	0	0	0	0
Pitot tube Ø 6mm, lg. 300 mm S	0	0	0	0	0
Thermocouple K, T and J probe	0	0	0	0	0
Gas leak detection probe	0	0	0	0	0
8 rechargeable batteries with charger	0	0	0	0	0
2x1 m silicone tube Ø 4 x 7 mm	•	•	•	•	•
Stainless steel tip Ø 6 x 100 mm	•	•	•	•	•
Calibration certificate	•	•	•	•	•
Transport case	•	•	•	•	•

Large choice of temperature probes (See related datasheet):

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



Accessories (See related datasheet)

7 100 000 7700 (occ related datasmets)							
Datalogger-10	KPIJ 20 – 50 – 100 – 200 - 600	RTS	KCTJ10 - KCTJ02				
Datalogger-10 PC software for data recording and processing. Wired (LPCF) or wireless (LPCR) interface.	Ammeter clamp with PVC cable Ig. 2m and jack connector.	Telescopic extension, length 1 m, bent at 90° for measuring probe.	Input cable current (KCTJ02) or voltage (KCTJ10) with PVC cable lg 2 m and jack connector				
CE 200	GST	ADS	See related datasheet				
Hands-free protective cover	Silicone heat conductive grease for temperature probes	Adaptor for power supply 230 Vac	Debimo airflow blades of different sizes				
See related datasheet	JAC	СНА					
Pitot tube available in many lengths Ø 3 – 6 or 8 mm, with or without temperature compensation	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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