



## X-pert range for humidity and temperature measurements in climate and environmental technology.

- Parameters measured Air pressure, temperature and humidity
- Measurement technology Various - thus exchangable sensors
- Product highlights

Precice and flexible all-rounder handheld instrument, easy to handle and robust, sensor connection with automatic recognition, saves measuring campaignes, allows all climate data to be calculated and archieved, evaluation software SmartGraph3 included

- Interfaces
  USB (Cable and SmartGraph3 software included)
- Article number 5820.00

Hand held device with integrated air pressure sensor is compatible with various intelligent external temperature and humidity probes.

IMPORTANT: Hand-held measuring device XP200 is discontinued

Please check the alternative: <u>All-in-One Handheld Device XA1000</u>

## Technical Data

Handheld measuring device XP200 - discontinued



General	
Dimensions	170 x 62 x 34 mm
Weight	Approx. 205 g
Storage conditions	
Permissible ambient temperature	-2060 °C
Operating rel. humidity	<90 % RH non - condensing
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Operating rel. humidity	<90 % RH (20 g/m3) non - condensing
Admissible height above	4000 m
absolute altitude	
Power supply	
Power supply	4 Alkaline LR6 AA 1.5 V/ USB 5 V
Active power consumption	Approx. 400 mW
Battery life passive	Approx. 1 year
Battery life active	min. 24 hours
Sensor power supply	5.5 V ± 10 % DC, max. 200 mA
Data storage	
Integrated data storage	Up to 200 gauges taking approx. 1 mill. values
Interface	
USB	Cable and SmartGraph3 software included in delivery
Display	
Definition of measured values	2 decimal places
Display	
Control	Touch screen, capacitive
Technology	TFT, resolution 240 x 320, 65 k colours, very good contrast due
	to Piezoresistive technology
Surface, toughened glass	Degree of hardness: 7, scratch - resistant
Integrated air pressure sensor	
Measuring range	8001100 mbar
Accuracy at 25°C, 1013.25mbar	0.5 mbar
Long torm stability	tup 1 mbar/upar

Accuracy at 25 C, 1013.25mbar	0.5 mbar
Long-term stability	typ. 1 mbar/year
Measurement resolution	0.024 mbar
Measuring principle	Piezoresistive

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Calculated measurement categories for external temperature/humidity sensors	Mathematical: MIN/MAX/AVG/HOLD Temperature °C/°F Rel. humidity %r.h Rel. humidity of ice %r.h Water vapour density (absolute humidity) g/m3 Dew point temperature °C/°F Frost point temperature °C/°F Mixing ratio at saturation (100%) g/kg Volume fraction of water vapour /mass fraction of water vapour % Wet-bulb temperature °C/°F Ice-bulb temperature °C/°F Specifi c Enthalpy (mass of air) kJ/kg Saturation vapour pressure above ice/water hPa Vapour particle pressure hPa Air density kg/m3
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