



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 |
| | |
| Operating conditions | |
| 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 |
|---|---|
|---|---|