



The most precise and flexible all-rounder instrument for professional applications-easy to handle and robust for measurement of Temperature/Humidity, flow, co2 and air pressure

- **Parameters measured**

Integrated sensor for air pressure, exchangeable sensors for highly precise measurements of temperature, relative humidity and air flow

- **Measurement technology**

Various - thus exchangeable sensors

- **Product highlights**

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

- **Interfaces**

USB (Cable and SmartGraph3 software included)

- **Article number**

5900.00

"All-rounder" in the handheld measurement technology segment. A universal measuring device for professionals with the inclusion of exchangeable SDI Sensors. Highly precise measurements of temperature and relative humidity. Integrated air pressure sensor, online/offline data recording. Equipped with test certificate, can be calibrated.

IMPORTANT: XA1000 Handheld Device is discontinued

Technical Data

All-in-One Handheld Device XA1000 - discontinued



| Beschreibung | Wert |
|--------------|------|
|--------------|------|

| General | |
|------------|------------------|
| Dimensions | 170 x 62 x 34 mm |
| Weight | Approx. 205 g |

| Storage conditions | |
|---------------------------------|------------------------------|
| Permissible ambient temperature | -20...60 °C |
| Operating rel. humidity | < 90 % r.h. non - condensing |

| Operating conditions | |
|---|---|
| Operating rel. humidity | < 90 % r.h. (20 g/m ³) non - condensing |
| Admissible height above absolute altitude | 4000 m |

| 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 |

| Display | |
|-------------------------------|--|
| Definition of measured values | 2 decimal places |
| 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 | |
|--------------------------------|---|
| Measurement range | 800...1100 mbar |
| Accuracy at 25°C, 1013.25mbar | 0.5 mbar |
| Long-term stability | typ. 1 mbar/year |
| Measurement resolution | 0.024 mbar |
| Measuring principle | Piezoresistive |
| Compatibility | Sensor/probe: all SDI/digital sensors (temperature, humidity, SDI airflow, air pressure integrated) |

| Others |
|--------|
|--------|

| | |
|--|--|
| <p>Calculated measurement categories for external temperature/humidity sensors</p> | <p>Mathematical: MIN/MAX/AVG/HOLD Temperature (°C/°F) Rel. humidity (% RH) Rel. humidity of ice (% RH) 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 Specific Enthalpy (mass of air) kJ/kg Saturation vapour pressure above ice/water (hPa) Vapour particle pressure (hPa) Air density kg/m³</p> |
| <p>Calculated measurement categories for external airflow sensors</p> | <p>Operating air flow volume - various units: (m³/s) (m³/h) (l/min); Standard air flow volume: DIN 1343 (°C, 1013.25hPa), ISO 2533 (15°C, 1013.25hPa), DIN 1945 (20°C, 1013.25hPa); Various units: (m³/s), (m³/min), (m³/h), (l/min)</p> |