



## High-precision reference measurement standard for industrial temperature calibrations

- **Parameters measured**  
Relative humidity, Temperature
- **Measurement technology**  
Temperature / NTC (Negative Temperature Coefficient); Rel. humidity / Capacitive
- **Product highlights**  
Excellent accuracy of temperature and relative humidity. Display of calculations and statistical functions.
- **Interfaces**  
USB (Cable and SmartGraph3 software included)
- **Article number**  
5700.00

The powerful and compact handheld device with state-of-the-art and robust design. Excellent accuracy. The high-resolution color screen displays rel. humidity, temperature and dew point. Excellent readability. The calibration function (offset correction) guarantees the long-term use without compromising the accuracy.

IMPORTANT: XC200 Handheld Device is discontinued

### General

|            |                  |
|------------|------------------|
| Dimensions | 170 x 60 x 35 mm |
| Weight     | Approx. 250 g    |

## Storage conditions

|                                 |  |
|---------------------------------|--|
| Permissible ambient temperature | -20...60 °C                              |
| Operating rel. humidity         | <95 % relative humidity non - condensing |

## Operating conditions

|   |             |
|---|-------------|
| Operating temperature                     | -20...50 °C |
| Operating rel. humidity                   | <90 % RH    |
| Admissible height above absolute altitude | 3000 m      |

## Power supply

|                           |  |
|---------------------------|--|
| Power supply              | 5.5 V ± 10 % DC, max. 200 mA   |
| Power consumption active  | Approx. 70 mA  |
| Passive power consumption | Approx. 40 µA  |
| Battery life              | Approx. 24 h (2.6 Ah battery capacity)   |
| Calculations              | Dew point temperature °C or °F<br>Absolute humidity g/m <sup>3</sup><br>Mixed ratio g/kg or gr/lb  |
| Functions                 | Statistical calculations MAX, MIN, HOLD, AVG, ACT<br>Temperature correction and humidity correction factors (offset)<br>Power saving functions |

## Relative humidity

|                 |                |
|-----------------|----------------|
| Principle       | Capacitive     |
| Measuring range | 0 ... 100 % RH |
| Unit            | % RH           |
| Accuracy        | ±2% RH         |
| Resolution      | 0.1            |

## Temperature

|                 |                                      |
|-----------------|--------------------------------------|
| Principle       | NTC                                  |
| Measuring range | -20 ... 50 °C                        |
| Unit            | °C                                   |
| Accuracy        | ± 0.2°C (0...40°C) otherwise ± 0.4°C |
| Resolution      | 0.1                                  |