

# Technical Data

Hand-held measuring device XC250 (with pyrometer)



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

- **Parameters measured**  
Relative humidity, Temperature, Surface temperature
- **Measurement technology**  
Temperature / NTC (Negative Temperature Coefficient); Rel. humidity / Capacitive; Surface Temp. / Pyrometer (thermopile)
- **Product highlights**  
Excellent accuracy of temperature and relative humidity. Display of calculations and statistical functions.
- **Interfaces**  
USB (Cable and SmartGraph3 software included)
- **Article number**  
5725.00

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.

General	
Optical measurement	6:1 at 50 % energy performance
Dimensions	170 x 60 x 35 mm

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Weight	Approx. 250 g
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## 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

## Power supply

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

## Relative humidity

Principle	Capacitive
Measuring range	0 ... 100 % RH
Unit	% RH
Accuracy	$\pm$ 2 % RH
Resolution	0.1

## Temperature

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

## Surface temperature

Principle	Thermophile
Measuring range	-70 ... 380 °C
Unit	°C
Accuracy	$\pm$ 0.5 °C (0...50 °C) or $\pm$ 4 °C
Resolution	0.1

## LaLaser classification

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Laser class	Laser class 2 (IEC 60825-1:2014); complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007
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