



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.

IMPORTANT: XC250 Handheld Device is discontinued

General













Technical Data





Optical measurement	6:1 at 50 % energy performance
Dimensions	170 x 60 x 35 mm
Weight	Approx. 250 g

Storage conditions		
Permissible ambient temperature	-2060 °C	
Operating rel. humidity	<95 % relative humidity non - condensing	

Operating conditions	
Operating temperature	-2050 °C
Operating rel. humidity	<90 % RH

Power supply	
Power supply	$5.5~\mathrm{V}\pm10~\%$ 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/m3
	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	±2 % RH
Resolution	0.1

Temperature		
Principle	NTC	
Measuring range	-20 50 °C	
Unit	°C	
Accuracy	± 0.2 °C (040 °C) otherwise ± 0.4 °C	
Resolution	0.1	

Surface temperature	
Principle	Thermophile
Measuring range	-70 380 °C
Unit	°C
Accuracy	± 0.5 °C (050 °C) or ± 4 °C
Resolution	0.1

LaLaser classification











Technical Data

Hand-held measuring device XC250 (with pyrometer) - discontinued



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







