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

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

Power supply	
Power supply	5.5 V ± 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/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 (0...40 °C) otherwise ± 0.4 °C
Resolution	0.1

Surface temperature	
Principle	Thermophile
Measuring range	-70 ... 380 °C
Unit	°C
Accuracy	± 0.5 °C (0...50 °C) or ± 4 °C
Resolution	0.1