

Measuring devices
with with high
resolution display

(e)XC(lusiv) Series XC250

- Precision of the xc200 combined with a high-precision pyrometer ($\pm 0,5^{\circ}\text{C}$ @ 0°C ... 50°C)
- Noncontact temperature measurement
- Continuous measurand output of the thermopile to the LCD
- Adjustable emmissivity, to adapt to different surfaces
- Pyrometer is laser assisted
- Configurable condensation/dew alarm with contact-free measurements (Application: e.g. detect molds)
- Two lines color display with large digits
- Accurate measurement of temperature and relative humidity
- Calculation of dew point temperature of the ambient air
- Calculation of mixed ratio
- Display of MAX, MIN, HOLD, AVG and ACT, easily selectable
- Easy-to-use touch operations (capacitive)
- USB interface for SmartGraph3 software
- Calibration certificate



Hand-held measuring device XC250

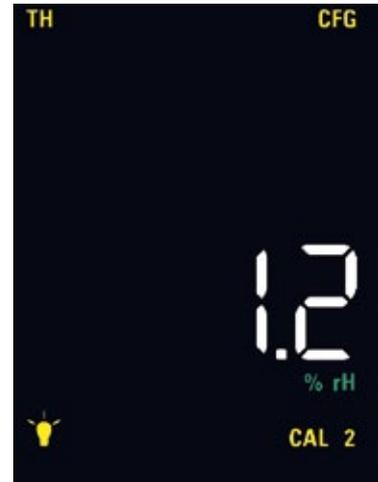
Pyrometer Temperature/Humidity



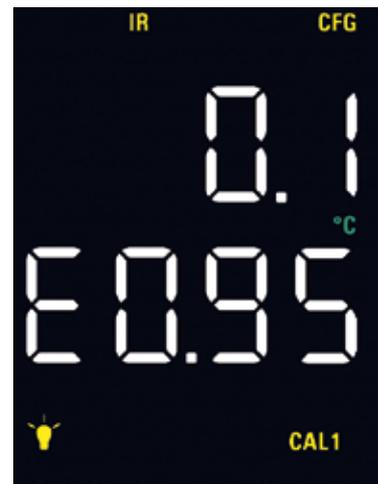
The powerful and compact handheld device with state-of-the-art and robust design. Excellent accuracy. The high-resolution color screen displays rel. humidity, temperature and dew point. Excellent readability. The calibration function (offset correction) guarantees the long-term use without compromising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

Special features: Contact-free temperature measurement

Hand-held measuring device XC250		Order No.
Excellent accuracy of temperature and relative humidity. Contact-free temperature measurement. Display of calculations and statistical functions. Adjustment of local pressure and local height possible. Calibration function and offset correction. Including a calibration certificate. USB interface with SmartGraph3 software.		5727.00
Technical data	Dimensions	170x60x35 mm
	Weight	Approx. 250g
Temperature Sensor	Principle	NTC
	Measurement range	-20...50°C
	Accuracy	+/- 0.2°C (0...40°C) otherwise +/- 0.4°C
	Resolution	0.1°C
Surface temperature	Principle	Thermopile
	Measurement range	-70 ... 380 °C
	Unit	°C
	Accuracy	± 0.5°C (0...50°C) otherwise ± 4°C
	Resolution	0.1
Humidity Sensor	Principle	Capacitive
	Measurement range	0...100%RH
	Accuracy	+/- 2%RH
	Resolution	0.1%RH
	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)
Storage conditions	Permitted ambient temperature	-20...60°C
	Permitted rel. humidity	<95%RH non-condensing
Operating conditions	Permitted ambient temperature	-20°C...50°C
	Permitted rel. humidity	<90%RH
Power supply	Power consumption	5.5V ± 10% DC, max 200mA
	Stromaufnahme aktiv	Approx. 70mA
	Stromaufnahme passiv	Approx. 40µA
	Batterielebensdauer	Approx. 24h (2.6Ah battery capacity)
Warranty		12 months
Accessories	Case for hand-held-measuring device	5800.BAG



User-offset configuration menu



Emissivity configuration



Dew point alarm configuration

More Information Lufft X-Series

www.lufft-xseries.com