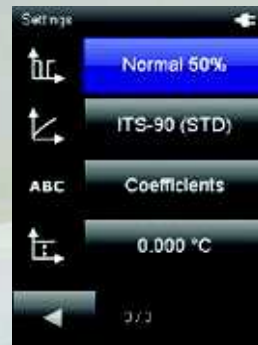




Measurement recording



Selection measuring menu

Ideal as reference standard

## X(per) P(rofessional) Series

# XP101

- TFT LCD , anti-glare colour display
- Capacitive touch screen
- Sampling rate 1s
- Data recording
- Graphical analysis including standard deviation
- Integrated flash memory with space for up to 200 data blocks, or up to three hours continuous recording
- USB port for data transfer to Smartgraph 3 (included in delivery)
- Multilingual interface
- Online firmware update



# Temperature measuring device XP101

## 0.005°C accuracy



High-precision reference measurement standard for industrial temperature calibrations. Suitable as temperature reference in block calibrators, climate chambers or liquid baths. Mini USB interface with software, online data collection.

Hand-held device XP101		Order No.
<p><i>The most accurate handheld device (0.005°C) for temperature. Ideal as reference standard. Excellent stability through multiple annealing cycles. Sensor characteristic curve is determined individually and is saved in the device. Integrated root 2 function for determination of the sensor self-heating, plus automatic elimination of parasitic thermovoltage. For traceability to national standards a DAkkS calibration certificate is attached.</i></p>		5810.10
Technical data	Dimensions	170 x 62 x 34 mm
	Weight	Approx. 205g
Temperature	Measurement range	-150 ... 450 °C
	Accuracy	0.005°C at 0.005°C otherwise -40...+200°C 0.02°C
	Measuring technique	Four terminal sensing
	Reaction time	10s
Measuring current in normal operation	1 mA DC with duty cycle of 50% = 0.50 mA, 1.85 measurements/sec. Automatic elimination of thermo voltage	
Measuring current "root 2 function"	1 mA DC with duty cycle of 33% = 0.30 mA, 1.25 measurements/sec. Automatic elimination of thermo voltage	
Integrated sensor characteristic curves	DIN EN IEC 60751 / ITS-90 or XP101-mode	
Storage conditions	Permitted ambient temperature	-20...60°C
	Permitted rel. humidity	<90% RH non-condensing
Operating conditions	Permitted rel. humidity	<90% RH non-condensing
	Permitted altitude above sea level	4000m
Power supply	Power supply	4 Alkaline LR6 AA 1.5V / USB 5V
	Active power consumption	Approx. 400mW
	Battery life passive	Approx. 1 year
	Battery life active	Min. 24 hours
Data storage	Sensor power supply	5.5V ± 10% DC, max. 200mA
	Integrated data storage	Up to 200 data/approx. 1 Mio measured values
Interface	USB	Cable and SmartGraph3 software included in delivery
Resolution	Definition of measured values	3 decimal places
Display	Control	Touch screen, capacitive
	Technology	TFT, resolution 240x320, 65k colours, very good contrast, suitable for sunlight
	Surface, toughened glass	Degree of hardness: 7, scratch-resistant
Accessories	Extension and/or connecting cable for digital sensor, 10m Power supply adapter 8120.NT	8120.KAB10 8120.NT



High quality wooden case and PT100 ceramic sensor are included in delivery

PT100 (immersion) probe, long		Order No.
Precision PT100, ceramic sensor, bifilar coiled, mineral insulated version		3120.700
Technical data	Dimensions, probe	300 x 4 mm
	Dimensions, housing	119 x 27/35 mm
	Weight	120g
	Protective housing	IP40
	Max. permitted operating temperature	PUR cable and handle can be used up to 80°C
Compatibility	XP100, XP101	

