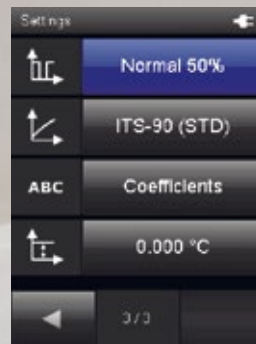




Measurement recording



Selection measuring menu

Ideal as
reference
standard

X(pert) 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.	
<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>			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	

