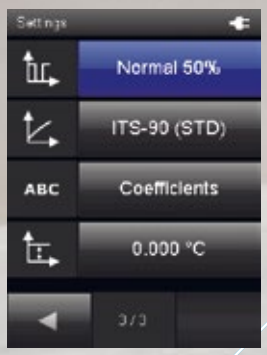
Measurement recording



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.
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.			**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	10 s	
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	
	Sensor power supply	5.5V ± 10% DC, max. 200mA	
Data storage	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