Product announcement

SiKA

Largest calibration volume in its class

Extremely wide temperature range from at least -100...150 °C / -148...302 °F

Fastest stabilization and processing times

Outstanding temperature stability

Available Q4/2026

High-performance deep-freeze calibrator
TP Premium -100

Temperature calibrator TP Premium -100

TP Premium // Dry block // approx. -100...150 °C // approx. -148...302 °F

TP Premium -100

Highlights

- Largest calibration volume in its class
- Fastest stabilization and processing times
- Extremely wide temperature range, at least -100...150 °C / -148...302 °F
- Outstanding temperature stability

The TP Premium -100 is still under development. Technical data is preliminary and subject to change.
The lower temperature limit of -100 °C / -148 °F will likely be even lower.

Technical data		TP Premium -100	
Temperature range		At least -100...150 °C	At least -148...302 °F
Display Resolution		Ø 48 x 200 mm (150 + 50 mm insulation)	Ø 1.9" x 7.9" (5.9" + 2" insulation)
Accuracy		±0.060 °C	±0.108 °F
Stability		±0.010 °C	±0.018 °F
Uniformity			
→ axial (40 mm)	→ axial (1.6")	±0.050 °C	±0.090 °F
→ radial (Ø 48 mm)	→ radial (Ø 1.4")	±0.050 °C	±0.090 °F
Influence of load		±0.010 °C	±0.018 °F
Stabilization time to +/- 10 mK		from 5 minutes	
Heating time (~7 °C (~12.6 °F) / minute max.)			
→ -100...23 °C	→ -148...73.4 °F	< 15 minutes	
→ 23...150 °C	→ -73.4...302 °F	< 25 minutes	
Cooling time			
→ 150...23 °C	→ 270...73.4 °F	< 60 minutes	
→ 23...-80 °C	→ 73.4...-112 °F	< 50 minutes	
→ -80...-90 °C	→ -112...-130 °F	< 10 minutes	
Resolution of the temperature display		0.001	
Temperature units		°C / °F / K	
Interfaces		Ethernet, 3x USB	
Connectivity		OPC UA, HTTP, serial communication	
Dimensions (WxHxD)		approx. 250 x 570 + 50 x 390 mm	approx. 9.8" x 22.4" + 2" x 15.4"
Weight		< 22 kg	< 48.5 lb
Power supply		90...240 VAC, 50/60 Hz	
Power consumption		approx. 250 VA	
Display		Brilliant color touchscreen (7 inches), multi panel safety glass	

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