

TP 37 // Dry block // -55...200 °C



Type	Highlights
TP 37200E.2	<ul style="list-style-type: none"> Patented control technology - time saving up to 50% Worldwide fastest Dry block temperature calibrator Hybrid technology (Peltier elements and heating cartridges) Widest temperature range with cooling and heating function on the market Fastest stabilisation times on the market Patented touchscreen function Management of device under test with barcode scanner (Accessories)

Technical data

Type	TP 37200E.2	TP 37165E.2
Control sensor	Switchable internal / external	
Hysteresis	±0.25 °C / ±0.025 °C (internal / external)	
Temperature range*	-55...200 °C	-35...165 °C
Dry block		
Accuracy	±0.2 °C	
Stability	±0.010 °C / ±0.005 °C (internal / external)	
Measurement zone	110...150 mm	

* At an ambient temperature of 20 °C / 68 °F

Transition times*	TP 37200E.2	TP 37165E.2
Cooling time → RT...Tmin** → Tmax...RT	35 min [-50 °C] 18 min	13 min [-30 °C] 11 min
Heating time → RT...Tmax → -Tmin...Tmax	9 min 12 min	14 min 16 min
Stabilisation time		
With ext. reference sensor → to ±0.05 °C → to ±0.005 °C	From 1 min From 5 min	From 1 min From 5 min

General data		
Type	TP 37200E.2	TP 37165E.2
Interface	Ethernet, 3 x USB	
Calibrator dimensions → Width → Height → Depth	210 mm 380 + 50 mm 300 mm	
Block dimensions → Diameter → Depth	∅ 28 mm 150 mm	
Weight	Approx. 12.5 kg	Approx. 10 kg
Power supply	100...240 VAC, 50 / 60 Hz	
Power consumption	Approx. 555 W	Approx. 375 W
Display unit		
Display	Brilliant Color-Touchscreen (7"), multi panel safety glass, Viewing angle 120...140° Brightness 400 cd / m ² , Unit °C / °F / K	
Display range	-60...200 °C	-50...165 °C
Resolution	0.1 / 0.01 / 0.001 °C / °F / K	

* Further information on transition times on request, all data refer to tests with new devices

** Cooling time to Tmin [-55 °C / -35 °C] differs

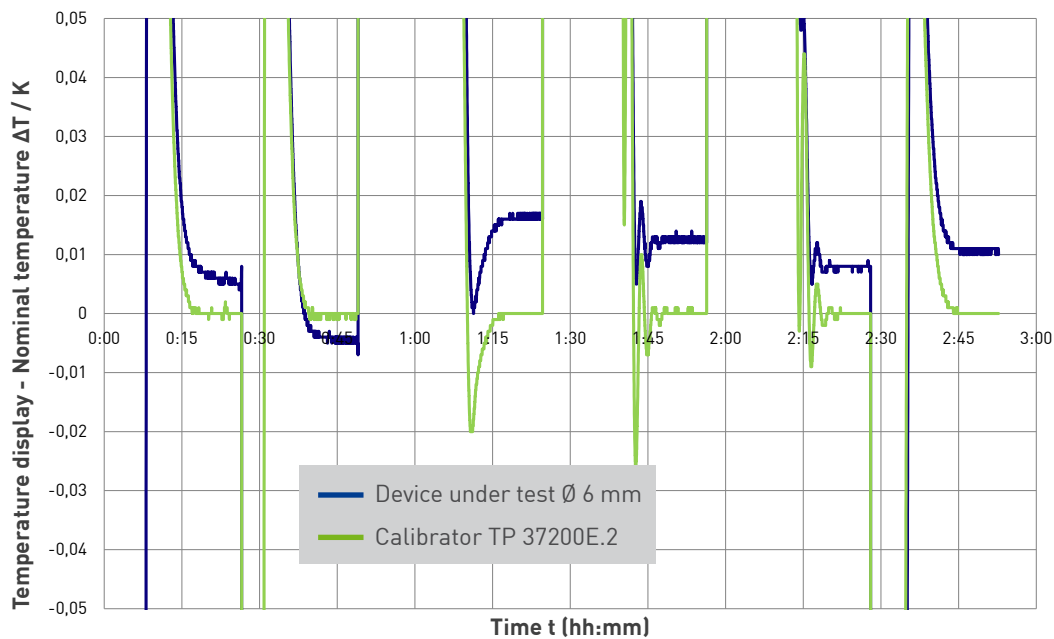
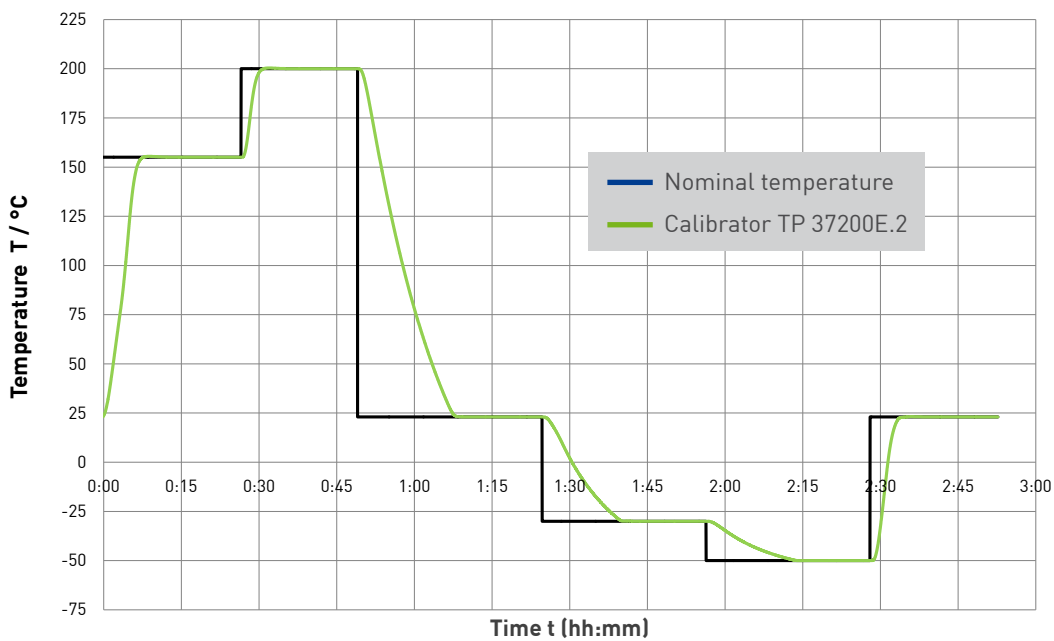


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Temperature steps TP 37200E.2 with external reference



TP 37 // Integrated measuring instrument

Technical data	
Optional for temperature calibrators	TP 37200E.2 / TP 37165E.2*
Device under test input - Resistance thermometers	
Number of channels	2
Connection	4x 4 mm safety socket per channel
Type of connection	2-, 3-, 4-wire technology
Resistance range	0...400 Ω
Accuracy Pt100	±0.05 °C
Accuracy Pt1000	±0.09 °C
Device under test input - Thermocouple	
Number of channels	2
Connection	2x thermocouple socket (Mini)
Measuring range	0...100 mV
Accuracy cold junction	±0.3 °C
Accuracy	
→ Type K	±0.08 °C
→ Type J	±0.07 °C
→ Type N	±0.13 °C
→ Type E	±0.06 °C
→ Type T	±0.09 °C
→ Type R	±0.78 °C
→ Type S	±0.73 °C
Standard signal input (Current)	
Number of channels	1
Connection	4 mm safety socket
Measuring range	0...24 mA
Accuracy	0.01 % full scale
Standard signal input (Voltage)	
Number of channels	1
Connection	4 mm safety socket
Measuring range	0...12 VDC
Accuracy	0.01 % full scale
Switch test	
Number of channels	2
Transmitter supply	
Output current	Max. 24 mA
Output voltage	24 VDC

* See order code

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To order a complete calibrator, you need three order numbers:

1. Calibrator type	EP37	xx	x	x	xxxxxx
2. Linearisation	EPLIK	xx	x	x	
3. Adapter sleeve	EZxxxxxxxxxxxx				

In addition, depending on your individual calibration requirements, you can order additional adapter sleeves, necessary certificates and other accessories.

Order code									
1. Calibrator type									
Temperature range	Function	Block	Power supply	Type					
-55...200°C	Dry block	Ø 28 x 150 mm	110...240 V	TP 37200E.2	EP37	20	2	2815U3	
-35...165°C	Dry block	Ø 28 x 150 mm	110...240 V	TP 37165E.2	EP37	16	2	2815U3	
Integrated measuring instrument									
Without					0				
With					I				
Example order number calibrator					EP37	20	I	2	2815U3

Order code									
2. Linearisation									
With linearisation					EPLIK	DB			
Reference sensor									
Internal					I00				
External					E00				
Test points									
Standard					0				
Customised					K				
Example order number linearisation					EPLIK	DB	I	0	

Order code								
3. Adapter sleeve								
Bore holes	Function	Block	Material	Order number				
1x Ø 3.5, 1x Ø 6.5, 1x Ø 13.5 mm	Dry block	Ø 28 x 150 mm	Brass	EZ15028B03MS17				
1x Ø 6.5 mm				EZ15028065MS00				
2x Ø 3.5 mm				EZ15028B02MS09				
1x Ø 3.5, 1x Ø 4.5 mm				EZ15028F02MS80				
1x Ø 3.5, 1x Ø 6.5 mm				EZ15028H02MS01				
1x Ø 3.5, 1x Ø 8.5 mm				EZ15028B02MS67				
1x Ø 3.5, 1x Ø 6.5, 1x Ø 8.5, 1x Ø 10.5 mm				EZ15028C04MS15				
Without bore holes				EZ15028000MS00				
Insert incl. one hole by choice				Dry block	Ø 28 x 150 mm	Brass	Please indicate holes in your order	
Every additional hole								
Example order number adapter sleeve					EZ16360C04AL05			

Order code	
4. Calibration certificate - Select your certificates as required*	Order number
SIKA-Works calibration certificate for 1. function	EKTPWP1FKT
SIKA-Works calibration certificate for 2. function	EKTPWP2FKT
DAkkS calibration certificate for 1. function	EKTPDAKKS1FKT
DAkkS calibration certificate for 2. function	EKTPDAKKS2FKT
Additional test point DAkkS calibration certificate	EKTPDAKKSZUSP
SIKA Works calibration certificate int. measuring instrument (Pt100, Type K)	EKTPWPMI1
SIKA Works calibration certificate int. measuring instrument (Pt100, Pt1000 Type K, Type J)	EKTPWPMI2
SIKA Works calibration certificate int. measuring instrument (Pt100, Type K, mA, V)	EKTPWPMI3
SIKA Works calibration certificate int. measuring instrument (Pt100, Pt1000 Type K, Type J, mA, V)	EKTPWPMI4
SIKA Works calibration certificate each additional measuring input of your choice (Pt 500, Pt1000, Type J/N/E/T/R/S, mA, V)	EKTPWPMIZUS
SIKA Works calibration certificate complete (Pt100, Pt 500, Pt1000, Type K/J/N/E/T/R/S, mA, V)	EKTPWPMIKOMPL
DAkkS calibration certificate int. measuring instrument (Pt100, Type K)	EKTPDAKKSMI1
DAkkS calibration certificate int. measuring instrument (Pt100, Pt1000 Type K, Type J)	EKTPDAKKSMI2
DAkkS calibration certificate int. measuring instrument (Pt100, Type K, mA, V)	EKTPDAKKSMI3
DAkkS calibration certificate int. measuring instrument (Pt100, Pt1000 Type K, Type J, mA, V)	EKTPDAKKSMI4
DAkkS calibration certificate each additional measuring input of your choice (Pt 500, Pt1000, Type J/N/E/T/R/S, mA, V)	EKTPDAKKSIZUS
DAkkS calibration certificate complete (Pt100, Pt 500, Pt1000, Type K/J/N/E/T/R/S, mA, V)	EKTPDAKKSOMPL

Order code	
5. Accessories	Order number
Transport case	
Without trolley attachment frame	EZTPKOFFER004
With trolley attachment frame	EZTPKOFFER004TG
More accessories	
Ext. reference sensor TF 255-3-300 (-55...255 °C)	W033P413000GX002
Network Switch	XE2103
Barcode scanner	XE2102
Wifi Router	XE2101

* Each calibrator comes with a standard test certificate.