

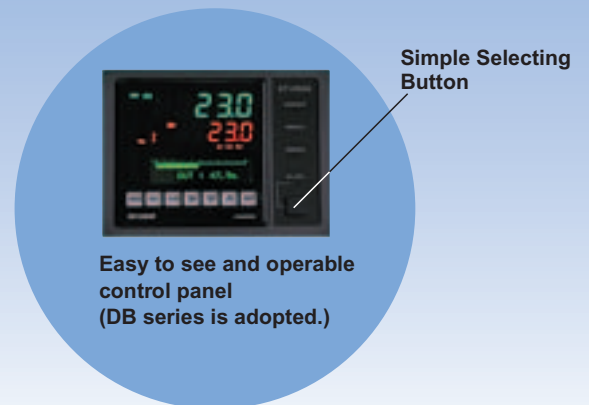
SMALL TYPE LOW TEMPERATURE COMPARATIVE CALIBRATION EQUIPMENT



MODEL **KT-H503, KT-H504**



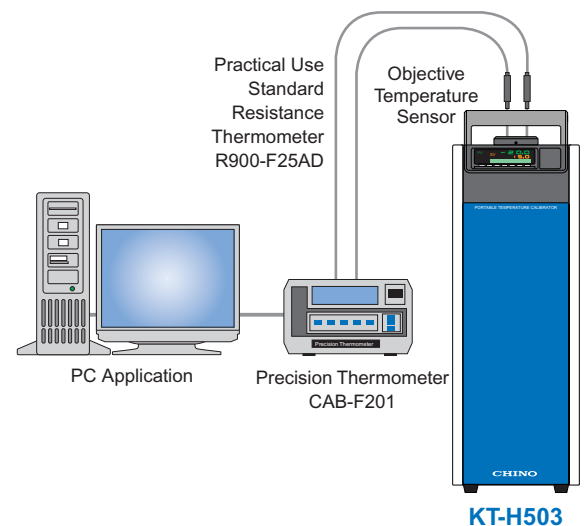
Realize low temperature calibration at -100°C and compact & light weight body. For on-site calibration of resistance thermometer and thermocouple!



FEATURES

- **Calibration from -100 to 155°C.**
Calibration from -100 to 50°C by Stirling cooler and calibration from -30 to 155°C by Peltier device is available.
- **Reduce the heating/cooling time**
KT-H503 (-100 to 50°C type) : 23°C to -100°C at about 40min.
KT-H504 (-30 to 155°C type) : -30°C to 155°C at about 20min.
- **Excellent temperature stability and temperature distribution**
KT-H503 (-100 to 50°C type) : $\pm 0.03^{\circ}\text{C}$ per 30min.
KT-H504 (-30 to 155°C type) : $\pm 0.01^{\circ}\text{C}$ per 30min.
Within 0.1°C (40mm from the bottom), within 0.01°C (between wells).
- **Simple temperature setting**
Select 8 preset temperature points by simple selecting button.
- **Calibration test report (option)**
CHINO calibration test report available.

EXAMPLE OF USE



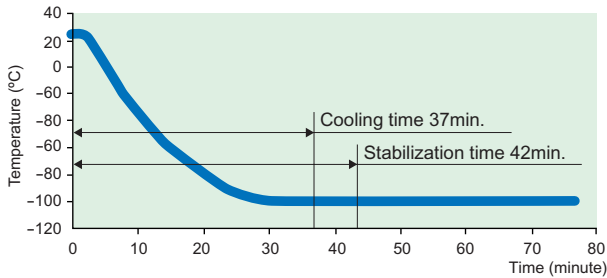
SPECIFICATIONS

Model	KT-H503	KT-H504
Calibration Temperature Range	-100 to 50°C	-30 to 155°C* (Ambient temperature:23°C)
Heating/Cooling Time	About 40min. (23 to -100°C) About 40min. (-100 to 50°C)	About 30min. (23 to -30°C) About 20min. (-30 to 155°C) About 15min. (155 to 23°C)
Stabilization Time	10min. (Stability time after reached to setting temperature.)	
Stability	±0.03°C (30min.)	±0.01°C (30min.)
Temperature Distribution	Within 0.1°C (40mm from the bottom), Within 0.01°C (between wells)	
Temperature Control Method	Heating and cooling decoupling control, Z control	
Block	Replaceable: select from 8 block types, custom type available	
Temperature Sensor Length	Over 205mm	Over 195mm
Display Resolution	0.1°C/0.01°C	
Communication Interface	RS232C	
Power Supply	100 to 240V AC 50/60Hz	100 to 120/200 to 240V AC Select 50/60Hz
Maximum Power Consumption	150V AC (at 100V AC) 270V AC (at 240V AC)	350V AC (at 100V AC) 450V AC (at 240V AC)
Weight	About 12kg	About 7.0kg

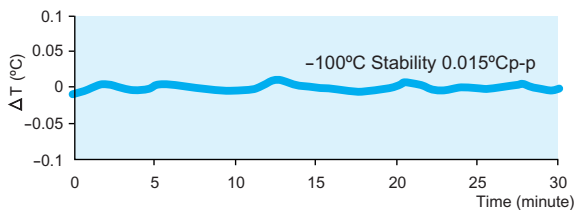
*Calibration temperature/ ambient temperature:
+1°C/+1°C for low temperature side (-30°C)

MEASURED DATA (KT-H503)

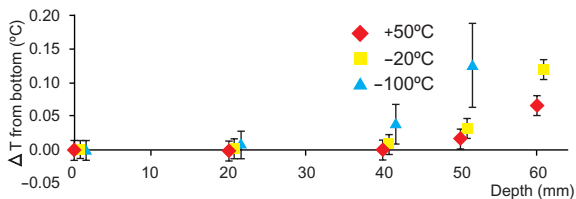
Cooling time and stabilization time



Stabilization at -100°C

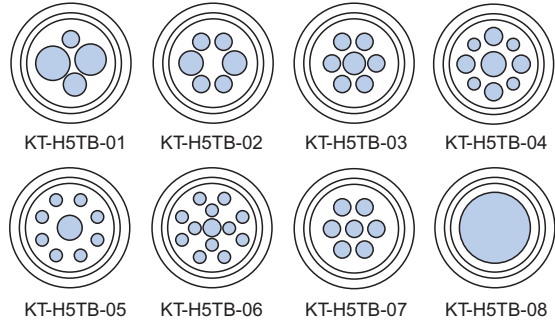


Temperature Distribution (vertical direction)



BLOCK TYPES

Block is replaceable so can be exchanged depending on the temperature sensor to calibrate.
Custom type is available.

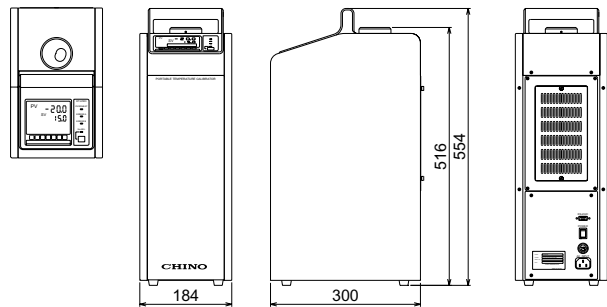


MEASURING WELL DETAILS FOR BLOCK

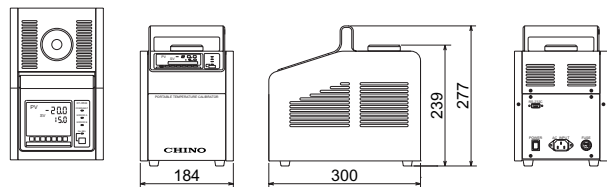
Symbol	Outside diameter of standard sensor	Measuring well and numbers
01	Ø7.2mm	Ø7.6mmx1, Ø6.6mmx1, Ø5.0mmx1, Ø3.4mmx1
02	Ø3.2/Ø4.8mm	Ø5.0mmx2, Ø3.4mmx4
03	Ø4.8mm	Ø5.0mmx1, Ø3.4mmx6
04	Ø4.8mm	Ø5.0mmx1, Ø3.4mmx4, Ø2.0mmx4
05	Ø4.8mm	Ø5.0mmx1, Ø2.0mmx8
06	Ø3.2mm	Ø3.4mmx1, Ø2.0mmx12
07	Ø3.2mm	Ø3.4mmx7
08	-	Ø17mmx1

DIMENSIONS

KT-H503



KT-H504



Unit: mm

Specifications subject to change without notice. Printed in Japan (I) 2012. 1

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