

CK 80/20

BlackBodies Automatic Calibration Kits



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Automatic Calibration Kits

CK80 AUTOMATIC CALIBRATION KIT FOR SR80 EXTENDED AREA BLACKBODIES

The CK80 is used for precise calibration of CI's extended area blackbodies. It achieves outstanding results by using the most advanced thermally stable electronic circuitry. Temperature data of either the emitter, targets or the difference between

them, is digitally displayed. The CK80 includes a digital thermometer, two PRTs, CI's automatic calibration software calibration certificate and a NIST traceability documentation.

FEATURES

- Automatic blackbody calibration
- RS-232 communication
- Traceable to NIST
- 0.001°C digital thermometer with high precision platinum resistance thermometers
- Blackbody disassembly from the tester is not required

SPECIFICATIONS

Temperature displays:	Digital display of emitter, target plate or their difference in C°, K°, F° and resistance of PRT
Resolution:	0.001°C
Temperature range:	-60°C to +180°C
Absolute Calibration Accuracy:	±0.05% Typical, 0.1% Max. of full scale traceable to NIST
Long term drift:	Typical ±0.020°C per year
Measurement current:	1mA
Ambient operating temperature range:	0°C to +60°C
Storage temperature range:	-40°C to +85°C
Relative humidity:	0 to 95%, noncondensing
Power supply:	230/115 VAC, 50/60 Hz, 10 Watts
Dimensions (HxWxD):	114x203x330mm (4.5"x8"x13")
Weight:	Approximately 8 Kg (17.6 Lb.)
Recalibration interval for NIST traceability:	12 months

CK20A AUTOMATIC CALIBRATION KIT FOR SR20 CAVITY BLACKBODIES

The CK20A is a NIST (National Institute of Standards and Technology) traceable temperature calibration kit that enables fully-automatic or semi-automatic recalibration of CI's high temperature cavity blackbodies.

The CK20A includes a high precision digital thermometer, a type "S" thermocouple probe, an attachment for positioning

the thermocouple in the blackbody cavity and a software program.

The CK20A transfers the accurately measured temperature rate to the computer, via RS 232 link. The software rewrites the new calibration values into the SR20 controller, using IEEE-488 communication between the PC and the SR20.

FEATURES

- NIST traceable
- Automatic calibration
- Digital data display
- Thermocouple holder for precise and repeatable positioning
- RS-232 communication

SPECIFICATIONS

Thermometer type:	Digital with internal cold junction reference
Temperature resolution:	0.1°C
Temperature accuracy:	±0.5°C
Temperature drift:	100 PPM/°C
Recalibration interval for NIST traceability:	12 months



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*Specifications are subject to change without prior notice

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