

SW15

Blackbody Radiation Source

- For Portable use with Battery Case
- For Stationary use with optional 12VDC Power Supply
- Single Point Temperature Control
- 100 °C standard set-point; 80 °C or 60 °C or 50 °C optional
- 20mm cavity diameter with Emissivity ≥ 0.996
- Clamp on front of cavity secures to 26mm HEITRONICS lenses



SW15 shown with Battery Case

GENERAL SPECIFICATION

Radiation Source SW15

Blackbody Temperature:	Factory Preset Temperature 100 °C or, specify 80 °C or 60 °C or 50 °C option
Cavity Dimensions:	Ø 20 mm (0.79 in.) x 37 mm (1.5 in.) depth
Emissivity:	≥ 0.996
Accuracy and Stability:	± 0.5 °C accuracy ; ± 0.1 °C short term stability (<i>Cal Cert option available</i>)
Warm-up time:	Approx. 10 minutes ; LED steady on during warm-up, LED flashes after warm-up
Permissible Ambient Temperature:	15 to 35 °C (59 to 95 °F) recommended ; 33°C maximum for 50 °C set-point option
Radiator Housing Temperature:	< +20 °C (+36 °F) above ambient
Storage Temperature:	-20 to 70 °C (-4 to 158 °F)
Protective Class:	None – housing is sealed for general purpose indoor use or no precipitation outdoors Keep plastic cap on cavity when not in use to avoid dust, dirt and liquids from entering
Dimensions and Radiator Material:	Ø 45 mm (1.8 in.) x 95 mm (3.7in.) length ; Black Anodized Aluminum housing
Weight:	350 g (0.8 lbs.)

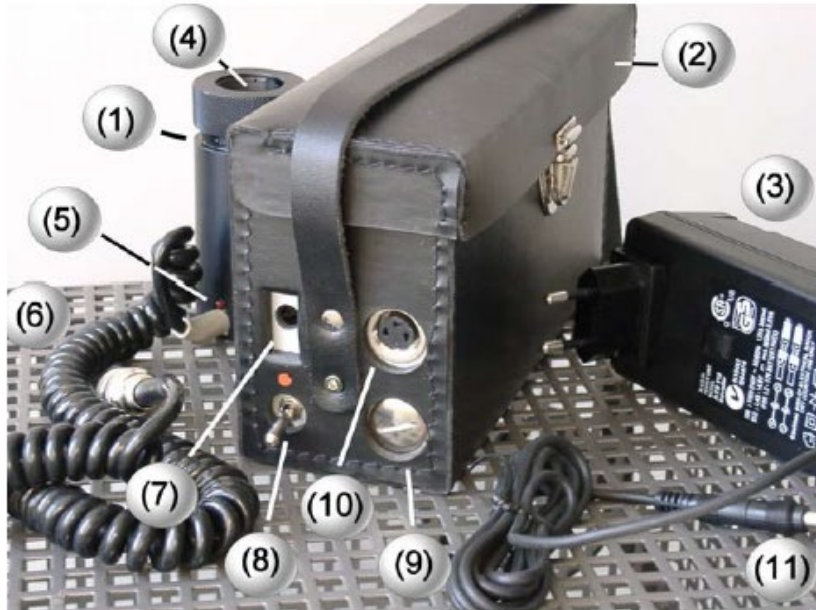
Battery Case E50

Output:	12VDC $\pm 15\%$; up to 12VA during warm-up, approx. 4VA continuous after warm-up
Battery Type:	2 x 4 C-cell NiMH battery pack, 3300mAh minimum
Charging and Operating Time:	Up to 5 hours charging ; Up to 7 hours operation on fully charged new battery pack
Permissible Ambient Temperature:	0 to 50 °C (32 to 122 °F)
Storage temperature:	0 to 45 °C (32 to 113 °F) (<i>dry low humidity location is best for long term storage</i>)
Protective Class:	None – Case is designed for general purpose indoor use or no precipitation outdoors
Dimensions and Case Material:	220 x 120 x 80 mm (8.7 x 4.7 x 3.2 in.) ; Leather case with leather shoulder strap
Weight:	1 kg (2.2 lbs.)

Charger LG

Voltage:	100 to 240 VAC 50/60Hz input ; 12VDC output, max. 800mA, 9.6VA
Permissible Ambient Temperature:	10 to 35 °C (50 to 95 °F)
Storage temperature:	-20 to 70 °C (-4 to 158 °F)
Dimensions:	120 x 50 x 60 mm (4.7 x 2 x 2.4 in.)
Weight:	400 g (0.9 lbs.)

SW15 Scope of Supply



Radiator SW15 with Battery case E50 and Charger LG

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|-----------------------|------------------------------|
| 1. SW15 | 7. Socket for charging cable |
| 2. Battery case | 8. ON/OFF-switch |
| 3. Charger | 9. Fuse M1.25 A |
| 4. Aperture of cavity | 10. Socket for SW15 |
| 5. Indicator lamp | 11. Connector of charger |
| 6. Connecting cable | |

ACCESSORIES and OPTIONS (items marked with * only available in the USA)

Blackbody Temperature Set-Point:	100 °C is standard ; specify 100 °C, 80 °C or 60 °C or 50 °C at time of ordering
*Power Supply for Stationary Use:	115VAC/12VDC power supply w/~1.5m cables & with or without connector (<i>specify</i>)
Straight (not spiral) 3-wire cable:	5m length cable with free ends
*Mounting Bracket for SW15:	Clamp style steel bracket with 1/4"-20 bolt - 1" length
Adapter for CT11/13/15 Series:	PN 55560373 – alignment tool between SW15 cavity and CT Series Thermometers
Spare Battery Pack:	2 x 4 C-Cell NiMH battery pack (<i>battery pack only - not leather case</i>)
*Calibration Certificate:	Traceable to the German NMI PTB ; yields accuracy enhancement to approx. 0.3 °C

Example of
115VAC/12VDC power
supply accessory. *
Style subject to change.



Clamp style
mounting
bracket *