




Infrared Calibration Equipment

Performance & Features summary

- **Transfer Radiation Thermometers ; -50 ... 3000 °C**
 Typical spectral ranges 8 ... 14µm and/or 3.9µm, 1µm, 1.6µm
 NETD to as low as ~ 20 ... 30mK
 Uncertainty to as low as ~70mK for $k=2$ (35mK for $k=1$)
- **Blackbody Radiation Sources ; -20 to 1000 °C**
 Cavity diameter up to 60mm
 Emissivity as high as 0.9994 ± 0.0002
 Cavity Uniformity & Uncertainty as low as ≤ 0.11 °C



HEITRONICS Transfer Radiation Thermometers are used by National Laboratories ; National Certifying / Underwriting Labs ; Independent Metrology Labs ; Government Research & Military Labs ; Manufacturers of Thermal Imaging Cameras, Infrared Thermometers & Blackbodies ; End User Cal Labs as well as the HEITRONICS laboratory.

<u>Primary Transfer Standards</u>		<u>Spectral Range</u>	<u>Temperature Range °C</u>
	TRTIV.82	8 ... 14µm	-50 ... 1000 °C (std.) options as wide as 0 ... 2500 °C
	TRTIV.41	3.9µm	150 ... 1000 °C (std.) options as wide as 150 ... 1800 or 2500 °C
	TRTII	8 ... 14µm + 3.9µm	-50 ... 2000 °C (with options)
 (TRT Qualified Version)	CT18.04	1.6µm	200 ... 2900 °C
	CT18.03	1µm	450 ... 3000 °C
<u>Secondary Transfer Standards</u>			
 16 other spectral ranges available	KT19.82	8 ... 14µm	-50 ... 1000 °C (std.) options as wide as 0 ... 2500 °C
	KT19.41	3.9µm	150 ... 1000 °C (std.) options as wide as 150 ... 1800 or 2500 °C

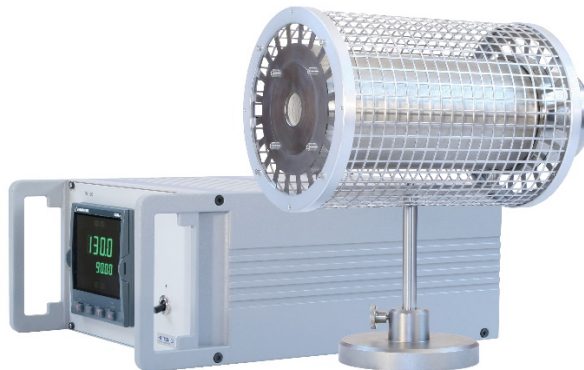
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ME30
 -20.0 ... 350.0 °C
 E = 0.9994
 60mm diameter cavity
 Fluid Bath design



SW40 30 ... 150 °C
SW40NT -20 ... 85 °C
 E > 0.995
 40mm diameter cavity
 Fluid Bath design



SW10
 50.0 ... 400.0 °C
 E ≥ 0.99
 25mm diameter cavity

SW11
 350 ... 1000 °C
 E = 0.992 ... 0.999
 25mm diameter cavity



SW15
 Portable Battery Powered or
 12VDC Power Supply
 Fixed Single Point
 50 °C or 60 °C or 80 °C or 100 °C
 E ≥ 0.996
 20mm diameter cavity

Specifications are subject to change without notice