




Calibration Equipment Performance & Features summary

- **Transfer Radiation Thermometers ; -50 to 3000 °C**
 Typical spectral ranges... 8-14µm and/or 3.9µm, 1µm, 1.6 µm
 NETD to as low as ~ 20 - 30mK
 Uncertainty to as low as ~70mK (for k=2)
- **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 to 14µm -50 to 1000 °C (std.) options as wide as 0 to 2000 °C
	TRTIV.41	3.9µm 150 to 1000 °C (std.) options as wide as 150 to 2000 °C
	TRTII	8 to 14µm + 3.9µm -50 to 1500 °C (with options)
	(TRT Qualified Versions of CT18)	
	CT18.04	1.6µm 200 to 2200 °C
	CT18.03	1µm 450 to 2200 °C

<u>Secondary Transfer Standards</u>	<u>Spectral Range</u>	<u>Temperature Range °C</u>
	KT19.82	8 to 14µm -50 to 1000 °C (std.) options as wide as 0 to 3000 °C
	KT19.41	3.9µm 150 to 1000 °C (std.) options as wide as 150 to 1800....2500 °C
	16 other spectral ranges are available	

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

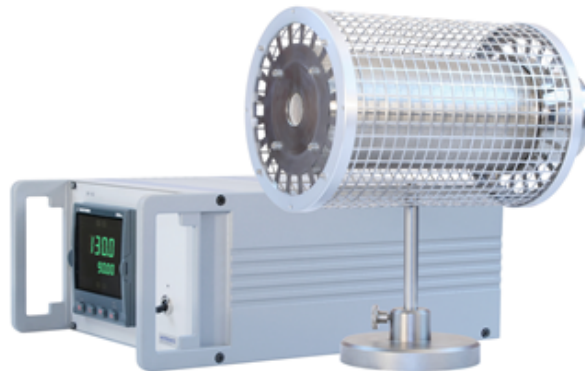
ME30
-20.0 to 350.0 °C
E = 0.9994
60mm diameter cavity
Silicone Fluid Bath design



SW20
Ambient to 95.0 °C
E ≥ 0.995
36mm diameter
cavity



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



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



SW15
Portable Battery Powered
Fixed Single Point, ±0.5 °C;
either @ 60 °C or 80 °C or 100 °C
E ≥ 0.99
20mm diameter cavity