




## 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	

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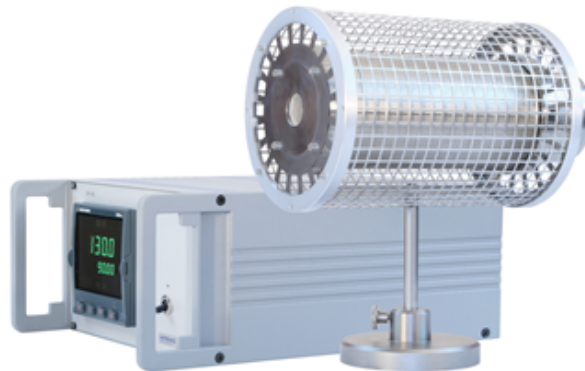
**ME30**  
-20.0 to 350.0 °C  
E = 0.9994  
60mm diameter cavity  
Silicone Fluid Bath design



**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