Infrared Calibration Equipment

Performance & Features summary

- **Transfer Radiation Thermometers**; -50 to 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.

<table>
<thead>
<tr>
<th>Primary Transfer Standards</th>
<th>Spectral Range</th>
<th>Temperature Range °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRTIV.82</td>
<td>8 to 14µm</td>
<td>-50 to 1000 °C (std.) options as wide as 0 to 2500 °C</td>
</tr>
<tr>
<td>TRTIV.41</td>
<td>3.9µm</td>
<td>150 to 1000 °C (std.) options as wide as 150 to 1800...2500 °C</td>
</tr>
<tr>
<td>TRTII</td>
<td>8 to 14µm + 3.9µm</td>
<td>-50 to 2000 °C (with options)</td>
</tr>
<tr>
<td>CT18.04</td>
<td>1.6µm</td>
<td>200 to 2900 °C</td>
</tr>
<tr>
<td>CT18.03</td>
<td>1µm</td>
<td>450 to 3000 °C</td>
</tr>
</tbody>
</table>

( TRT Qualified Version )

<table>
<thead>
<tr>
<th>Secondary Transfer Standards</th>
<th>Spectral Range</th>
<th>Temperature Range °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT19.82</td>
<td>8 to 14µm</td>
<td>-50 to 1000 °C (std.) options as wide as 0 to 2500 °C</td>
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<tr>
<td>KT19.41</td>
<td>3.9µm</td>
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</tbody>
</table>

16 other spectral ranges 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

**SW40**
-20.0 to 110 °C
E = 0.995
40mm 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 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.