



Volume 12 Issue 10 - October 2023

Director's Message



One of the holidays observed during this month is World Standards Day. Celebrated internationally each year on October 14, the day honors the efforts of the thousands of experts who develop voluntary standards within standards development organizations. The aim of World Standards Day is to raise awareness among regulators, industry, and

consumers as to the importance of standardization to the global economy.

Standards play an important role in thermography since they serve as guides for qualifications of personnel, equipment usage, noncontact temperature measurement, and infrared inspections of objects and processes. Because they specify procedures and requirements for reporting, standards help to ensure accuracy and repeatability.

For nearly 40 years, Infraspection Institute and its personnel have been actively involved in standards development for thermal imaging and noncontact temperature measurement. As co-authors and publishers of standards for thermography, we are proud of our contributions and thank our colleagues who helped us to shape and advance our profession.

Checking IR Equipment Calibration

Infrared radiometers must be within calibration in order to accurately measure temperatures. Thermographers periodically send their equipment to the manufacturer for calibration. For some, this process can take several weeks and can be rather expensive. As an alternative, savvy thermographers can check the calibration of their instrument quickly and easily using some commonly available items.



In order to check infrared radiometer calibration, you will need at least two targets, each with a known temperature and emittance. A simple solution is to use a container of ice water and a container of boiling water with a coupon of Scotch PVC electrical tape affixed to the container's exterior surface. The size of both targets must exceed the spot measurement size of the instrument being

Upcoming Courses

[Online Distance Learning](#)

[Level I Certified Infrared Thermographer®](#)

- Oct 2 - 6 West Windsor
- Oct 9 - 13 San Diego
- Oct 9 - 13 Perth
- Oct 11 - 13 Perth *
- Oct 23 - 27 Palm Springs
- Oct 23 - 27 Mississauga
- Oct 23 - 27 Trinidad
- Nov 13 - 17 Houston
- Nov 14 - 18 Albuquerque
- Nov 20 - 24 Kuala Lumpur
- Nov 20 - 24 Halifax
- Dec 4 - 8 West Windsor
- Dec 4 - 8 Tempe
- Dec 11 - 15 Trinidad
- Jan 2 - 5 Vancouver
- Jan 8 - 12 Tucson
- Jan 9 - 12 Victoria
- Jan 22 - 26 Santa Barbara

* Flexible Learning

[Level II Certified Infrared Thermographer®](#)

- Oct 30 - Nov 3 Trinidad
- Dec 18 - 22 Trinidad
- Mar 11 - 15 West Windsor

[Level III Certified Infrared Thermographer®](#)

calibrated. Container temperatures may be ascertained with a thermometer, thermocouple, or contact radiometer.

Once targets have been prepared, use the following procedure:

- Turn radiometer on and allow it to stabilize with room temperature
- Set radiometer perpendicular to target surface
- If possible, set radiometer inputs for distance, humidity, and air temperature
- Aim, focus, and calculate Reflected Temperature
- Set radiometer emittance control. Scotch 191 tape = 0.97 LW or SW; Ice = 0.98 LW, 0.93 SW
- Using subject radiometer, measure temperature of target. For ice water, measure temperature of ice cubes For hot water container, measure tape coupon.
- Compare radiometer's value with contact temperature reading for each target to ensure that radiometer is within spec

A heated blackbody simulator can be used to check instrument calibration at higher temperatures. Because radiometer calibration is not user-adjustable, it will be necessary to return it to the manufacturer should you find your instrument is out of spec.

[More Information](#)

Training - A Wise Use of Year-End Budget Money



When it comes to spending year-end budget monies, the phrase "Use it or Lose it" often applies. Training can be a wise choice for those looking to reduce a budget surplus.

Staying within budget is a constant challenge for maintenance managers. For many, it seems that there is never enough money in the budget. On occasion, however, it is possible to experience a surplus in one's budget when nearing year end.

When faced with a budget surplus, it is imperative to fully utilize allocated financial resources. Failure to do so can cause a reduction in future budgeting should management perceive that your department is over funded. When searching for wise choices for year-end spending, training is always a good option.

Thermographic training is a sound investment for initiating a PdM program or expanding an existing one. Whenever considering infrared training, be certain to:

- Examine course curriculum to ensure that it meets your needs
- Ensure that course will be germane to all infrared imagers
- Determine course locations or availability of Distance Learning courses
- Ascertain whether certification is included with course, its expiration date, and renewal fees
- Insist that instructors be practicing thermographers with documented field experience in their area of instruction

[More Information](#)

- Mar 18 - 20 West Windsor

[Full 2023 - 2024 Schedule](#)

Upcoming Conferences

Infraspection Institute invite you to see us at the following upcoming conferences. Be sure to stop by and say Hello!

[SMRP Conference](#)

October 16 - 19, 2023
Orlando, FL

[IR/INFO Conference](#)

January 14 - 17, 2024
Orlando, FL

[NETA PowerTest Conference](#)

February 26 - March 1, 2024
Dallas, TX

[NFMT](#)

March 12 - 14, 2024
Baltimore, MD

Links of Interest

[IRINFO.ORG](#)

[TI-Reporter.com](#)

[NORMI.TV](#)

[A-Rent](#)

Attend IR/INFO 2024 and Get Discounted Training!

In celebration of IR/INFO's 34th anniversary, Infraspction Institute are pleased to announce several special offers combining the world's most respected infrared training and certification program with the industry's original technical conference.



Several packages are available featuring discounts on Level I, II, and III Infraspction Institute Certified Infrared Thermographer® training courses and TI Reporter™ software. Discounted group rates are available for four or more persons.

[More Information](#)

Treat Yourself



[Become an Infraspction Institute Master Thermographer®](#)

