# Calibration Report: Pyrometer (Infrared Radiation Thermometer) S/N: 1414

Bryan Fabbri Science Systems and Applications, Inc. Hampton, Virginia

### Summary

Calibration date: 2020 March 13

A calibration of Pyrometer data (also known as an Infrared Radiation Thermometer or IRT), has been completed. The calibration was performed 2020 March 13 by Wintronics, Inc. located in Millington, NJ.

## Instrument Specifications: Manufacturer: Heitronics

Model: KT19.85 Serial Number: 1414

Lens Type: K6

The instrument was "out of tolerance" as received, but only at the 50C datapoint. At 50C with an older lens, it was -1.4C low. After replacing the older lens with a K6 lens, and calibrated, it was shipped "in tolerance". No post-processing adjustments are needed.

The following pages provide more detail into the calibration process and results.

Application: We use Campbell Scientific (CS) datalogger hardware and Loggernet CS software.

## Wintronics, Inc.

50 Division Ave, Suite 1 Millington, NJ 07946

Phone: (908) 647-0144 Fax: (908) 647-8379

#### Certificate of Calibration

Certificate No.:

J0142210

Manufacturer: Heitronics

Description: Infrared Thermometer

KT19.85 Model No:

Serial No: 1414

Customer:

Customer PO:

SSAI 1 Enterprise Pkwy, Suite 200 Hampton, VA 23666

Customer Asset No

Temperature (C):

PLW 13-Mar-2020 Date Cal:

Humidity (%): Procedure:

40 W60985, Rev 2

13-Mar-2021 Date Due:

The manufacturer's specifications of the above instrument have been confirmed by comparison to standards which are regularly calibrated using accepted values of natural physical constants, ratio type self-calibrating techniques, comparison to standards which are traceable to NIST or other NMI, or compared to consensus standards. Wintronics' Quality System is accredited to ISO/IEC 17025:2017.

As received condition:

Out of Tolerance

As shipped condition: Type of Calibration:

In Tolerance Normal

**Calibration Standards** 

Manufacturer Heitronics

Model TRT3.82

Description Transfer Infrared Pyrometer Asset # W185

Calibration Date 28-May-2019

Date Due 31-May-2020

Cert. No. J0138085

Peter Winter President

Certified By

Issue Date: 16-Mar-2020

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Marie	intronics, Inc., 50 D	onics, Inc. Calibra	ton, NJ 079	6 (908) 647	7-0144	Job: J01422
SSAI		Mfg: Heitronics		Model: KT19.85(-II)		Date: 03-13-
A:	1414	Cust. A	Asset #:			Tech: PLW
Nominal Temperature	Blackbody Temperature	As Received	Outgoing		Tolerance	TUR
-10°C	-9.83	See note below	-9.8		10.7000	
0°C	+0.11	See note below			±0.78°C	
25°C	25.00	See note below	+0.1		±0.71°C	
50°C	49.99	See note below	49.7		±0.50°C	
75°C	74.95	See note below	74.9		±0.61°C	
100°C	100.02	See note below	100	190000000000000000000000000000000000000	±0.81°C ±0.99°C	
	Cal Factor		2036		No Specification	1
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Unit received with lens K8AR. Customer requested lens be changed to Lens K6. Initial test with lens K8 showed unit ~1.4°C low at 50°C.