



THE EPPLEY LABORATORY, INC.

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Calibration Certificate RAD 1

Instrument: Precision Infrared Radiometer, Model PIR, Serial Number 35116F3

Procedure: This pyrgeometer was compared against Eppley's Blackbody Calibration System under radiation intensities of approximately 350 Wm^{-2} with an average ambient temperature of 21°C according to procedures described in Technical Procedure, TP05 of The Eppley Laboratory, Inc.'s Quality Assurance Manual on Calibrations.

Transfer Standard: Eppley Precision Infrared Radiometer, Model PIR, Serial Number 32227F3

Results: **Sensitivity:** $S = 3.84 \mu\text{V} / \text{Wm}^{-2}$
Uncertainty: $U_{95} = \pm 1.7\%$ (95% confidence level, $k=2$)
Resistance: 647Ω at 23°C

Date of Test: January 15, 2018

Traceability: This calibration is traceable to the International Practical Temperature Scale (IPTS). Additionally, transfer standard PIR #32227F3 provides traceability to the World Infrared Standard Group (WISG) of pyrgeometers housed at the Infrared Radiometry Section of the World Radiation Centre (WRC-IRS). Unless otherwise stated in the remarks section below or on the Sales Order, the results of this calibration are "AS FOUND / AS LEFT".

Due Date: Eppley recommends a minimum calibration cycle of five (5) years but encourages annual calibrations for highest measurement accuracy.

Customer: URI
Narragansett, RI

Signatures: *Debra J. Gentry*
In Charge of Test:

Thomas J. Kent
Reviewed by:

Eppley SO: 65127

Date of Certificate January 19, 2018

Remarks: