

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Suga Test Instruments Co., Ltd.

6-10-2 Shinjuku, Shinjuku-ku Tokyo 160-0022 Japan

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document. The current scope of accreditation can be verified at www.anab.org.



R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 19 January 2025 Certificate Number: AC-2116





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Suga Test Instruments Co., Ltd.

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CALIBRATION

Certificate Number: AC-2116 Valid to: January 19, 2025

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pneumatic Gage Pressure	(0 to 0.2) MPa	0.001 4 MPa	Digital Pressure Gage DG-923N-G Tokyo Aircraft Instrument Co., Ltd. with Nitrogen
	(0 to 0.3) MPa	0.002 2 MPa	
	(0 to 0.4) MPa	0.002 4 MPa	
	(0 to 1) MPa	0.011 MPa	, =

Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Radiometer for Water Cooled 7.5 kW Xenon Lamps	Quartz / #275		
	$(40 \text{ to } 180) \text{ W/m}^2$		Spectral Irradiance
	(300 to 400) nm	12 % of reading	Standard Source, Reference Radiometer
	Quartz / #295		
	(40 to 180) W/m ²		Reference Radiometer
	(300 to 400) nm	13 % of reading	
Radiometer	Quartz / #320		Spectral Irradiance
for Water Cooled 7.5 kW	$(40 \text{ to } 162) \text{ W/m}^2$		Standard Source,
Xenon Lamps	(300 to 400) nm	14 % of reading	Reference Radiometer





Photometry and Radiometry

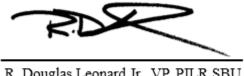
Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Spectral Irradiance - Tungsten Lamp	(>0 to 30) μW·cm² / λ (250 to 350) nm (350 to 450) nm (450 to 600) nm (600 to 830) nm (830 to 850) nm	5.6 % of reading 3.9 % of reading 3.4 % of reading 3.7 % of reading 4.1 % of reading	Spectral Irradiance Tungsten Lamp
Spectral Irradiance - Water Cooled 7.5 kW Xenon Lamps	Quartz / #275, #295, #320 (>0 to 300) μW·cm² / λ (300 to 350) nm (350 to 450) nm (450 to 600) nm (600 to 830) nm (830 to 850) nm	11 % of reading 8.2 % of reading 7.9 % of reading 13 % of reading 6.5 % of reading	Spectral Irradiance Tungsten Lamp

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Resistance Thermometry 100Ω , 3-wire type	(0 to 70) °C	0.1 °C	Digital Thermometer 1502A Fluke Corporation

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2116.



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