

Name of Accreditation Program	JCSS Accreditation Program
Accreditation Identification	JCSS 0143 Calibration
Name of Conformity Assessment Body	Calibration Service Center, Nagano Keiso Co., Ltd.
Name of Legal Entity	Nagano Keiso Co., Ltd. JCN 2010801008718
Inquiry Point	Quality assurance section TEL: +81-268-38-8353 FAX: +81-268-38-8609

*JCN: Japan Corporate Number



23·03·27-NITE-005
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Certificate of Accreditation

International Accreditation Japan (IAJapan) hereby accredits the following conformity assessment body as a calibration laboratory of Japan Calibration Service System.

Accreditation Identification: JCSS 0143 Calibration

Name of Conformity Assessment Body: Calibration Service Center, Nagano Keiso Co., Ltd.

Name of Legal Entity: Nagano Keiso Co., Ltd.

Location of Conformity Assessment Body: 2416-27 Fujiyama, Ueda-shi, Nagano 386-1212, JAPAN

Scope of Accreditation: Pressure (as the following pages)

Accreditation Requirement: ISO/IEC 17025:2017*

* The relevant accreditation requirements described in the Accreditation Scheme Document for JCSS are also applied.

Effective Date of Accreditation: 2023-08-25

Expiry Date of Accreditation: 2027-08-24

Date of Initial Accreditation: 2006-07-05

SAITO Kazunori

Chief Executive, International Accreditation Japan (IAJapan)

National Institute of Technology and Evaluation

- International Accreditation Japan (IAJapan) is a laboratory accreditation body which has signed MRAs of ILAC (International Laboratory Accreditation Cooperation) and APAC (Asia Pacific Accreditation Cooperation).

- MRA requirements are, in addition to relevant international standards and guides, requirements for participation in proficiency testing programs, surveillance and reassessment, and the policy for the traceability of measurement for MRA purpose.

- This laboratory fulfills ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation means this laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

- The latest accreditation information is publicly available on IAJapan Website as an accreditation certificate.

General Field of Calibration: PressureDate of Initial Accreditation of the Field: 2006-07-05Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facilityCalibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/ Materials to be calibrated		Range			Expanded Uncertainty (Level of Confidence Approximately 95 %)
Pressure Gauge	Pressure Balance	Gas	Gauge Pressure	From 2 kPa up to 100 kPa	0.0080 % or 0.80 Pa, whichever is larger
				More than 100 kPa up to 2 MPa	0.0080 % or 10 Pa, whichever is larger
		Liquid	Gauge Pressure	From 0.2 MPa up to 20 MPa	0.0080 % or 0.32 kPa, whichever is larger
				More than 20 MPa up to 100 MPa	0.0080 % or 2.0 kPa, whichever is larger
				More than 100 MPa up to 200 MPa	0.010 %
	Liquid Manometer	Water Type	Gauge Pressure	From 2 kPa up to 20 kPa	0.040 % or 3.0 Pa, whichever is larger
	Pressure Gauges (Digital Pressure Gauges, Pressure Transducers)	Gas	Gauge Pressure	From -90 kPa less than -10 kPa	0.013 % or 4.0 Pa, whichever is larger
				From -10 kPa up to -2 kPa	3.2 Pa
				From 2 kPa up to 10 kPa	0.80 Pa
				More than 10 kPa up to 100 kPa	0.0063 % or 1.3 Pa, whichever is larger
				More than 100 kPa up to 2 MPa	0.0063 % or 10 Pa, whichever is larger
			Absolute Pressure	From 2 kPa up to 100 kPa	0.013 % or 5.0 Pa, whichever is larger
				More than 100 kPa up to 2 MPa	0.010 % or 25 Pa, whichever is larger
			Differential Pressure	From 10 Pa up to 100 Pa [Line Pressure: 100 kPa \pm 10 kPa (Absolute Pressure)] [Line Pressure: From 10 kPa up to 80 kPa (Gauge Pressure)]	0.20 Pa
				More than 0.1 kPa up to 10 kPa [Line Pressure: 100 kPa \pm 10 kPa (Absolute Pressure)] [Line Pressure: From 10 kPa up to 80 kPa (Gauge Pressure)]	0.0080 % or 0.25 Pa, whichever is larger
				More than 10 kPa up to 100 kPa [Line Pressure: From 20 kPa up to 100 kPa (Gauge Pressure)]	0.0063 % or 1.3 Pa, whichever is larger
				More than 100 kPa up to 1.5 MPa [Line Pressure: From 50 kPa up to 500 kPa (Gauge Pressure)]	0.0080 % or 20 Pa, whichever is larger
From 0.2 MPa up to 1.0 MPa [Line Pressure: From 0.5 MPa up to 1 MPa (Gauge Pressure)]				0.0080 % or 40 Pa, whichever is larger	

#All Calibration Procedures are in-house procedures developed by this laboratory.

Calibration Procedures# and Type of Instruments/ Materials to be calibrated		Range			Expanded Uncertainty (Level of Confidence Approximately 95 %)	
Pressure Gauge	Pressure Gauges (Digital Pressure Gauges, Pressure Transducers)	Liquid	Gauge Pressure	From 0.2 MPa up to 5 MPa	0.32 kPa	
				More than 5 MPa up to 20 MPa	0.0063 % or 0.40 kPa, whichever is larger	
				More than 20 MPa up to 50 MPa	0.0063 % or 1.6 kPa, whichever is larger	
				More than 50 MPa up to 100 MPa	0.0080 %	
				More than 100 MPa up to 200 MPa	0.010 %	
	Mechanical type Pressure Gauges	Gas	Gauge Pressure	From -90 kPa less than -10 kPa	0.050 % or 20 Pa, whichever is larger	
				From -10 kPa up to -2 kPa	6.3 Pa	
				From 2 kPa up to 10 kPa	5.0 Pa	
				More than 10 kPa up to 400 kPa	0.050 % or 20 Pa, whichever is larger	
				More than 400 kPa up to 2 MPa	0.050 % or 0.25 kPa, whichever is larger	
			Absolute Pressure	From 5 kPa up to 100 kPa	0.050 % or 25 Pa, whichever is larger	
				More than 100 kPa up to 2 MPa	0.050 % or 0.10 kPa, whichever is larger	
			Differential Pressure	From 20 Pa up to 200 Pa [Line Pressure: From 10 kPa up to 80 kPa (Gauge Pressure)]	2.0 Pa	
				More than 0.2 kPa up to 1 kPa [Line Pressure: From 10 kPa up to 80 kPa (Gauge Pressure)]	2.5 Pa	
				More than 1 kPa up to 10 kPa [Line Pressure: From 10 kPa up to 80 kPa (Gauge Pressure)]	6.3 Pa	
				More than 10 kPa up to 40 kPa [Line Pressure: From 20 kPa up to 100 kPa (Gauge Pressure)]	13 Pa	
				More than 40 kPa up to 100 kPa [Line Pressure: From 20 kPa up to 100 kPa (Gauge Pressure)]	0.063 % or 25 Pa, whichever is larger	
				More than 100 kPa up to 1.5 MPa [Line Pressure: From 50 kPa up to 500 kPa (Gauge Pressure)]		
				Liquid	Gauge Pressure	From 0.2 MPa up to 2 MPa
			More than 2 MPa up to 5 MPa			2.5 kPa
More than 5 MPa up to 7 MPa	4.0 kPa					
More than 7 MPa up to 10 MPa	5.0 kPa					
More than 10 MPa up to 100 MPa	0.063 % or 10 kPa, whichever is larger					
More than 100 MPa up to 200 MPa	0.063 % or 0.10 MPa, whichever is larger					

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Laboratory's permanent facility/On-site Calibration: On-site Calibration
Calibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/ Materials to be calibrated		Range			Expanded Uncertainty (Level of Confidence Approximately 95 %)
Pressure Gauge	Pressure Gauges (Digital Pressure Gauges, Pressure Transducers)	Gas	Gauge Pressure	From 200 kPa up to 500 kPa	0.013 % or 40 Pa, whichever is larger
				More than 500 kPa up to 2 MPa	0.016 %
	Mechanical Type Pressure Gauges	Liquid	Gauge Pressure	From 1 MPa up to 50 MPa	0.050 % or 0.63 kPa, whichever is larger
				Gas	Gauge Pressure
		Liquid	Gauge Pressure	From 1 MPa up to 3.5 MPa	2.0 kPa
				More than 3.5 MPa up to 5 MPa	3.2 kPa
				More than 5 MPa up to 10 MPa	6.3 kPa
				More than 10 MPa up to 20 MPa	13 kPa
				More than 20 MPa up to 35 MPa	20 kPa
				More than 35 MPa up to 50 MPa	32 kPa

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