

Name of Accreditation Program	JCSS Accreditation Program
Accreditation Identification	JCSS 0143 Calibration (Calibration)
Date of Initial Accreditation	2006-07-05
Effective Date of Accreditation	2019-09-09
Expiry Date of Accreditation	2023-09-08
Name and Location of Conformity Assessment Body	Calibration Service Center, Nagano Keiso Co., Ltd. 2416-27, Fujiyama, Ueda-shi, Nagano 386-1212, JAPAN
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
Accreditation Requirements	ISO/IEC 17025:2017 and Accreditation Requirements in the Section 6 of Accreditation Scheme (JCSS) 2nd Edition (Calibration)
Accreditation Scope	As attached

*JCN: Japan Corporate Number

General Field of Calibration: PressureDate of Initial Accreditation of the Field: 2006-07-05Permanent Laboratory/On-site Calibration: Permanent LaboratoryCalibration 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	0.008 % or 0.8 Pa, whichever is larger
				More than 100 kPa up to 2 MPa	0.008 % or 10 Pa, whichever is larger
		Liquid	Gauge Pressure	From 0.2 MPa up to 20 MPa	0.008 % or 0.32 kPa, whichever is larger
				More than 20 MPa up to 100 MPa	0.008 % 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
	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	0.8 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	0.01 % 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)]	0.2 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)]	0.008 % or 0.32 Pa, whichever is larger				

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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	Differential Pressure	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 20 kPa up to 100 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)]	0.008 % or 40 Pa, whichever is larger
		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	0.008 %
				More than 100 MPa up to 200 MPa	0.01 %

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range			Expanded Uncertainty (Level of Confidence Approximately 95 %)
Pressure Gauge	Mechanical Type Pressure Gauges	Gas	Gauge Pressure	From -90 kPa less than -10 kPa	0.05% 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	0.05 % or 20 Pa, whichever is larger
				More than 400 kPa up to 2 MPa	0.05 % or 0.25 kPa, whichever is larger
			Absolute Pressure	From 5 kPa up to 100 kPa	0.05 % or 25 Pa, whichever is larger
				More than 100 kPa up to 2 MPa	0.05 % 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	1.3 kPa
				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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Permanent Laboratory/On-site Calibration: On-site CalibrationCalibration 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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