

COPY

Calibration Laboratory

Accreditation  
Certificate

Accreditation No.RCL00260



JAB



**Hirose Electric Co., Ltd.**  
**Testing Center**

**14-36, Higashidai, Ichinoseki-shi, Iwate, 021-0822 Japan**

meets the following criteria. On the basis of this, Japan Accreditation Board (JAB) grants accreditation to the said calibration laboratory.

Applicable accreditation criteria	: JIS Q 17025:2005 (ISO/IEC 17025:2005)
Scope of accreditation	: <b>Electromagnetics(DC/Low Frequency), Dimensional</b> (As described in the appendix)
Premises covered by accreditation	: As described in the appendix.
Expiry date of accreditation	: November 30, 2020

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system.

The management system requirements in ISO/IEC 17025:2005 meet the principles of ISO 9001:2008 and are aligned with its pertinent requirements.

Revised (6)	February 13, 2018
Renewed (3)	November 22, 2016
Initial accreditation	November 24, 2004

T. Oda, Chairman  
Laboratory Accreditation Committee

Y. Iizuka, President  
Japan Accreditation Board

# Accreditation Certificate

## Appendix



**JAB**



Type of Laboratory	Calibration Laboratory
Name of Laboratory	Hirose Electric Co., Ltd. Testing Center
Address	14-36, Higashidai, Ichinoseki-shi, Iwate, 021-0822 Japan

1) Premises on which calibration activities are performed

Name of Premises	Hirose Electric Co., Ltd. Testing Center		
Address of Premises	Postal Code	021-0822	
	Address	14-36, Higashidai, Ichinoseki-shi, Iwate, Japan	
Calibration service at permanent facilities or on site calibration service	<input checked="" type="checkbox"/> Calibration service at permanent facilities <input checked="" type="checkbox"/> On site calibration service		

Scope of Accreditation

CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY (APPROXIMATELY 95 % COVERAGE PROBABILITY, $k = 2$ )	CALIBRATION PROCEDURE, REMARKS
M13 Dimensional M13.5 Length and step gauges	Diameter 1 mm to 10 mm Over 10 mm to 30 mm	1.3 $\mu\text{m}$ 1.4 $\mu\text{m}$	Calibration object : Pin gauge  In-house method : M16-4006  Reference Standard : Master pin gauge
M13.17 Micrometers	Scale interval/Reference Resolution : Length 0.01 mm : 0 mm to 75 mm  0.001 mm : 0 mm to 75 mm	[4.2+L/(250 mm)] $\mu\text{m}$  [2.2+L/(200 mm)] $\mu\text{m}$	Calibration object : External micrometer, Blade micrometer, Crimp height micrometer, Cylinder micrometer, Point micrometer,  In-house method : M16-4054  Reference Standard : gauge blocks



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CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY (APPROXIMATELY 95 % COVERAGE PROBABILITY, $k = 2$ )	CALIBRATION PROCEDURE, REMARKS
M13.18 Calipers	Scale interval/Reference Resolution : Length 0.01 mm : 0 mm to 300 mm 0.02 mm : 0 mm to 150 mm 0.05 mm : 0 mm to 300 mm	0.03 mm 0.05 mm 0.11 mm	Calibration object : Vernier caliper, Digimatic caliper, Dial caliper, Constant pressure caliper, Inside caliper,  In-house method : M16-4051  Reference Standard : gauge blocks
M11 Electromagnetics (DC/Low Frequency) M11.25 Withstanding voltage tester AC voltage	50 Hz	5,000 V : 2 % 3,000 V : 2 % 2,500 V : 2 % 2,000 V : 2 % 1,000 V : 3 % 500 V : 3 % 300 V : 4 % 200 V : 5 % 100 V : 8 %	Calibration object : Withstanding voltage tester  In-house method : M16-4058  Reference Standard : High voltage digital meter
M11.25 Withstanding voltage tester AC current	50 Hz	3 mA : 1 % 2 mA : 2 % 1 mA : 3 % 0.5 mA : 4 %	Calibration object : Withstanding voltage tester  In-house method : M16-4058  Reference Standard : Digital multi meter
(NOTE) L:Nominal dimension of gauge blocks			