



Calibration Laboratory

Accreditation Certificate

Accreditation No. RCL00350



COSMO INSTRUMENTS CO., LTD.
Cosmo Group Calibration Laboratory

2974-23, Ishikawacho, Hachioji-shi, Tokyo, 192-0032 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 17025:2018 (ISO/IEC 17025:2017)
 Scope of accreditation : **Mechanical**
 (As described in the appendix)
 Premises covered by accreditation : As described in the appendix.
 Expiry date of accreditation : July 31, 2025

Revised	May 24, 2024
Renewed	August 1, 2021
Initial accreditation	July 31, 2009

Y. Iizuka, President

Japan Accreditation Board



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Type of Laboratory	Calibration Laboratory
Name of Laboratory	COSMO INSTRUMENTS CO., LTD. Cosmo Group Calibration Laboratory
Address	2974-23, Ishikawacho, Hachioji-shi, Tokyo, 192-0032 Japan

1) Premises on which calibration activities are performed

Name of Premises	COSMO INSTRUMENTS CO., LTD. Cosmo Group Calibration Laboratory	
Address of Premises	Postal Code	192-0032
	Address	2974-23, Ishikawacho, Hachioji-shi, Tokyo, Japan
Calibration service at permanent facilities or on site calibration service	<input checked="" type="checkbox"/> Calibration service at permanent facilities <input type="checkbox"/> On site calibration service	

Scope of Accreditation

CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY ¹⁾	CALIBRATION PROCEDURE, REMARKS
M14 Mechanical M14.13 Artificial Leak (Standard Leak) Gas Type: Nitrogen, Air Outflow Pressure: Atmosphere Calibration Leak	$1.5 \times 10^{-5} \text{ Pa} \cdot \text{m}^3/\text{s} \sim 3.6 \times 10^{-3} \text{ Pa} \cdot \text{m}^3/\text{s}$	2.8 %	CCC-02-3044 (Internal instructions)
M14 Mechanical M14.5 Flow rate Gas flow meter (dry air) Gas flow rate	0.05 mL/min to 0.1 mL/min	10.0 %	CCC-02-1001 (Internal instructions)
	0.1 mL/min to 0.2 mL/min	6.0 %	
	0.2 mL/min to 1 mL/min	3.5 %	
	1 mL/min to 200 mL/min	0.6 %	
	10 mL/min to 100 mL/min	0.5 %	
M14 Mechanical M14.5 Flow rate Gas flow meter (dry air) Gas flow rate	0.1 L/min to 115 L/min	0.4 %	CCC-02-1002 (Internal instructions)
	0.05 mL/min to 0.1 mL/min	25.0 %	CCC-02-1003 (Internal instructions)
	0.1 mL/min to 0.2 mL/min	12.5 %	
	0.2 mL/min to 0.3 mL/min	6.3 %	
	0.3 mL/min to 1 mL/min	5.0 %	CCC-02-1004 (Internal instructions)



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CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY ¹⁾	CALIBRATION PROCEDURE, REMARKS
	1 mL/min to 2 mL/min	3.1 %	CCC-02-1005 (Internal instructions)
	2 mL/min to 10 mL/min	1.6 %	
	0.01 L/min to 500 L/min	1 %	
	70 L/min to 200 L/min	0.6 %	
	140 L/min to 500 L/min	0.6 %	
M14 Mechanical M14.14 Pressure Digital pressure gauge Differential pressure gauge	0.001 kPa to 10 kPa	1.3 Pa	CCC-02-01 (Internal instructions)
	0.001 kPa to 10 kPa	1.6 Pa	CCC-02-02 (Internal instructions)
Digital pressure gauge Gas gauge pressure	1 kPa to 10 kPa	1.3 Pa	CCC-02-03 (Internal instructions)
	10 kPa to 100 kPa	1.8 Pa, 0.005 % whichever larger	
	20 kPa to 200 kPa	30 Pa	CCC-02-04 (Internal instructions)
	200 kPa to 2000 kPa	33 Pa, 0.005 % whichever larger	
	-10 kPa to -0.01 kPa	1.8 Pa	CCC-02-07 (Internal instructions)
	0.001 kPa to 10 kPa	1.6 Pa	
	20 kPa to 200 kPa	40 Pa	CCC-02-14 (Internal instructions)
	200 kPa to 2000 kPa	52 Pa, 0.007 % whichever larger	
	-90 kPa to -10 kPa	12 Pa	CCC-02-08 (Internal instructions)
	-20 kPa to -1 kPa	5 Pa	
1.0 kPa to 20 kPa	3 Pa		
10 kPa to 100 kPa	3 Pa, 0.007 % whichever larger		



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CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY ¹⁾	CALIBRATION PROCEDURE, REMARKS
Digital pressure gauge Gas absolute pressure	20 kPa to 500 kPa	0.03 kPa	CCC-02-09 (Internal instructions)
	500 kPa to 700 kPa	0.05 kPa	
	900 hPa to 1100 hPa	0.05 hPa	CCC-02-06 (Internal instructions)
Digital pressure gauge Liquid pressure gauge	1 MPa to 50 MPa	0.0022 MPa, 0.012 % whichever larger	CCC-02-05 (Internal instructions)
Air Leak Tester Gas gauge pressure	25 Pa to 1000 Pa	4 Pa	CCC-02-15 (Internal instructions)
	0.25 kPa to 10 kPa	18 Pa	
Bourdon tube pressure gauge Gas gauge pressure	1 kPa to 20 kPa	0.4 kPa	CCC-02-17 (Internal instructions)
	10 kPa to 100 kPa	1 kPa	
	40 kPa to 200 kPa	1.8 kPa	
	100 kPa to 1000 kPa	8 kPa	
	200 kPa to 2000 kPa	25 kPa	
Digital pressure gauge (Pressure SW) Gas gauge pressure	-90 kPa to -10 kPa	0.7 kPa	CCC-02-16 (Internal instructions)
	10 kPa to 100 kPa	0.6 kPa	
	100 kPa to 1000 kPa	5 kPa	
	-90 kPa to -10 kPa	0.6 kPa	
	1 MPa to 2 MPa	0.012 MPa	
¹⁾ Information on the coverage factor	<input type="checkbox"/> $k=2$; level of confidence of approximately 95 % <input checked="" type="checkbox"/> coverage factor obtained from the effective degrees of freedom that defines a level of confidence of 95 %, based on the t -distribution <input type="checkbox"/> others ()		



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1) Premises on which calibration activities are performed

Name of Premises	COSMO INSTRUMENTS CO., LTD. Cosmo Group Calibration Laboratory	
Address of Premises	Postal Code	192-0032
	Address	2974-23, Ishikawacho, Hachioji-shi, Tokyo, Japan
Calibration service at permanent facilities or on site calibration service	<input 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 ¹⁾	CALIBRATION PROCEDURE, REMARKS
M14 Mechanical M14.5 Flow rate Gas flow meter(dry air) Gas flow rate	1 mL/min to 2 mL/min 2 mL/min to 200 L/min	3.3 % 1.8 %	CCC-02-1006 (Internal instructions, On site calibration service)
M14 Mechanical M14.14 Pressure Air Leak Tester Gas gauge pressure	25 Pa to 1000 Pa 0.25 kPa to 10 kPa	6 Pa 24 Pa	CCC-02-18 (Internal instructions, On site calibration service)
Bourdon tube pressure gauge Gas gauge pressure	1 kPa to 20 kPa 10 kPa to 100 kPa 40 kPa to 200 kPa 100 kPa to 1000 kPa 200 kPa to 2000 kPa -90 kPa to -10 kPa	0.4 kPa 1 kPa 2 kPa 8 kPa 25 kPa 1 kPa	CCC-02-18 (Internal instructions, On site calibration service)
Digital pressure gauge (Pressure SW) Gas gauge pressure	10 kPa to 100 kPa 100 kPa to 1000 kPa -90 kPa to -10 kPa 1 MPa to 2 MPa	0.8 kPa 6 kPa 0.8 kPa 0.012 MPa	CCC-02-18 (Internal instructions, On site calibration service)



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CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY ¹⁾	CALIBRATION PROCEDURE, REMARKS
Digital pressure gauge Gas gauge pressure	25 Pa to 1000 Pa	4 Pa	CCC-02-25(Internal instructions, On site calibration service)
	-1000 Pa to -25 Pa	4 Pa	
	1 kPa to 20 kPa	0.004 kPa	
	-20 kPa to -1 kPa	0.010 kPa	
	10 kPa to 100 kPa	0.8 kPa	
	20 kPa to 200 kPa	0.4 kPa	
	200 kPa to 2000 kPa	0.4 kPa	
Digital pressure gauge Liquid pressure gauge	1 MPa to 50 MPa	0.005 MPa, 0.03 % whichever larger	CCC-02-25(Internal instructions, On site calibration service)
Digital pressure gauge Gas absolute pressure	900 hPa ~ 1100 hPa	0.5 hPa	CCC-02-25(Internal instructions, On site calibration service)
¹⁾ Information on the coverage factor	<input type="checkbox"/> $k=2$; level of confidence of approximately 95 % <input checked="" type="checkbox"/> coverage factor obtained from the effective degrees of freedom that defines a level of confidence of 95 %, based on the t -distribution <input type="checkbox"/> others ()		

(Notes on Accreditation Certificate)
The laboratory is only accredited for laboratory activities outlined within the methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.
When version information of standards or methods are not identified in the scope, laboratories shall adapt to use the current version of such standards within six months at latest from the issued date of current version.

Japan Accreditation Board