



JAB



Calibration Laboratory

Accreditation Certificate

COPY

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 17025:2005 (ISO/IEC 17025:2005)
Scope of accreditation	: Mechanical (As described in the appendix)
Premises covered by accreditation	: As described in the appendix.
Expiry date of accreditation	: July 31, 2021

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.

Renewed (2)
Initial accreditation

July 25, 2017
July 31, 2009

T. Oda, Chairman
Laboratory Accreditation Committee

Y. Mizuka, 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	CALIBRATION PROCEDURE, REMARKS
M14.5 Flow rate	1 mL/min to 10 mL/min	0.58 %	CCC-02-1001
Gas flow meter (dry air)	20 mL/min to 200 mL/min	0.58 %	(Internal instructions)
Gas flow rate	10 mL/min to 100 mL/min	0.31 %	CCC-02-1002
Gas flow meter (dry air)	10 mL/min to 100 mL/min	0.31 %	(Internal instructions)
Gas flow meter (dry air)	0.1 L/min to 10 L/min	0.31 %	CCC-02-1003
Gas flow rate	10 L/min to 20 L/min	0.32 %	(Internal instructions)
	20 L/min to 50 L/min	0.34 %	
	50 L/min to 115 L/min	0.36 %	
Gas flow meter (dry air)	1 mL/min to 10 mL/min	0.65 %	CCC-02-1004
Gas flow rate	0.01 L/min to 10 L/min	0.38 %	(Internal instructions)
	10 L/min to 20 L/min	0.38 %	
	20 L/min to 50 L/min	0.38 %	
	50 L/min to 115 L/min	0.40 %	
	40 L/min to 500 L/min	0.56 %	

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Type of Laboratory	Calibration Laboratory
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Address	2974-23, Ishikawacho, Hachioji-shi, Tokyo, 192-0032 Japan

CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY	CALIBRATION PROCEDURE, REMARKS
Gas flow meter (dry air)	70 L/min to 200 L/min	0.54 %	CCC-02-1005
Gas flow rate	140 L/min to 500 L/min	0.54 %	(Internal instructions)
M14.14 Pressure	0.001 kPa to 10 kPa	1.3 Pa	CCC-02-01
Digital pressure gauge			(Internal instructions)
Differential pressure gauge			
Digital pressure gauge	0.001 kPa to 10 kPa	1.6 Pa	CCC-02-02
Differential pressure gauge			(Internal instructions)
Digital pressure gauge	1.0 kPa to 10 kPa	1.3 Pa	CCC-02-03
Gas gauge pressure			(Internal instructions)
	10 kPa to 100 kPa	1.8 Pa, 0.005 % whichever larger	
Digital pressure gauge	20 kPa to 200 kPa	30 Pa	CCC-02-04
Gas gauge pressure			(Internal instructions)
	200 kPa to 2000 kPa	33 Pa, 0.005 % whichever larger	
Digital pressure gauge	-10 kPa to -0.01 kPa	1.8 Pa	CCC-02-07
Gas gauge pressure	0.001 kPa to 10 kPa	1.6 Pa	(Internal instructions)
Digital pressure gauge	20 kPa to 200 kPa	40 Pa	CCC-02-14
Gas gauge pressure			(Internal instructions)
	200 kPa to 2000 kPa	52 Pa, 0.007 % whichever larger	

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Type of Laboratory	Calibration Laboratory
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Address	2974-23, Ishikawacho, Hachioji-shi, Tokyo, 192-0032 Japan

CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY	CALIBRATION PROCEDURE, REMARKS
Digital pressure gauge	-90 kPa to -10 kPa	12 Pa	CCC-02-08 (Internal instructions)
Gas gauge pressure	-20 kPa to -2 kPa	4.4 Pa	
	1 kPa to 20 kPa	3 Pa	
	10 kPa to 100 kPa	3 Pa, 0.007 % whichever larger	
Digital pressure gauge	20 kPa to 500 kPa	0.03 kPa	CCC-02-09 (Internal instructions)
Gas absolute pressure	501 kPa to 700 kPa	0.05 kPa	
Digital pressure gauge	900 hPa to 1100 hPa	0.05 hPa	CCC-02-06 (Internal instructions)
Gas absolute pressure			
Digital pressure gauge	1 MPa to 50 MPa	0.0022 MPa, 0.012 % whichever larger	CCC-02-05 (Internal instructions)
Liquid pressure gauge			
Air Leak Tester	25 Pa to 1000 Pa	4 Pa	CCC-02-15 (Internal instructions)
Gas gauge pressure	0.25 kPa to 10 kPa	18 Pa	
Bourdon tube pressure gauge	1 kPa to 20 kPa	0.4 kPa	CCC-02-17 (Internal instructions)
	10 kPa to 100 kPa	1 kPa	
Gas gauge pressure	40 kPa to 200 kPa	1.8 kPa	
	100 kPa to 1000 kPa	8 kPa	
	200 kPa to 2000 kPa	25 kPa	
	-90 kPa to -10 kPa	0.7 kPa	
Digital pressure gauge (Pressure SW)	10 kPa to 100 kPa	0.6 kPa	CCC-02-16 (Internal instructions)
	100 kPa to 1000 kPa	5 kPa	
Gas gauge pressure	-90 kPa to -10 kPa	0.6 kPa	
	1 MPa to 2 MPa	0.012 MPa	

(NOTE)

The expanded uncertainty is determined by the coverage factor (k) calculated by the effective degrees of freedom based on t-distribution, and it gives an interval estimated to have-95% confidence level.

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1) Premises on which calibration activities are performed

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Scope of Accreditation

CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY	CALIBRATION PROCEDURE, REMARKS
M14.5 Flow rate Gas flow meter (dry air) Gas flow rate	1 mL/min to 25 mL/min	0.69 %	CCC-02-1006 (Internal instructions, On site calibration service)
	0.01 L/min to 10 L/min	0.50 %	
	10 L/min to 20 L/min	0.50 %	
	40 L/min to 200 L/min	0.60 %	
M14.14 Pressure Air Leak Tester Gas gauge pressure	25 Pa to 1000 Pa	6 Pa	CCC-02-18 (Internal instructions, On site calibration service)
	0.25 kPa to 10 kPa	24 Pa	
Bourdon tube pressure gauge Gas gauge pressure	1 kPa to 20 kPa	0.4 kPa	CCC-02-18 (Internal instructions, On site calibration service)
	10 kPa to 100 kPa	1 kPa	
	40 kPa to 200 kPa	2 kPa	
	100 kPa to 1000 kPa	8 kPa	
	200 kPa to 2000 kPa	25 kPa	
	-90 kPa to -10 kPa	1 kPa	
Digital pressure gauge (Pressure SW) Gas gauge pressure	10 kPa to 100 kPa	0.8 kPa	CCC-02-18 (Internal instructions, On site calibration service)
	100 kPa to 1000 kPa	6 kPa	
	-90 kPa to -10 kPa	0.8 kPa	
	1 MPa to 2 MPa	0.012 MPa	

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Digital pressure gauge	25 Pa to 1000 Pa	4 Pa	CCC-02-25 (Internal instructions, On site calibration service)
Gas gauge pressure	-1000 Pa to -25 Pa	4 Pa	
	1 kPa to 20 kPa	0.004 kPa	
	-20 kPa to -2 kPa	0.006 kPa	
	20 kPa to 200 kPa	0.4 kPa	
	200 kPa to 2000 kPa	0.4 kPa	
	-90 kPa to -10 kPa	0.3 kPa	
(NOTE) The expanded uncertainty is determined by the coverage factor (k) calculated by the effective degrees of freedom based on t-distribution, and it gives an interval estimated to have 95% confidence level.			

Japan Accreditation Board