



Calibration Laboratory

Accreditation  
Certificate

Accreditation No. RCL00350

COPY



***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	:	<b>Mechanical</b> (As described in the appendix)
Premises covered by accreditation	:	As described in the appendix.
Expiry date of accreditation	:	July 31, 2025

Revised	August 2, 2022
Renewed	August 1, 2021
Initial accreditation	July 31, 2009

Y. Iizuka, President

**Japan Accreditation Board**



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## Appendix

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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 <sup>1)</sup>	CALIBRATION PROCEDURE, REMARKS
M14 Mechanical	0.05 mL/min to 0.1 mL/min	10.0 %	CCC-02-1001 (Internal instructions)
M14.5 Flow rate	0.1 mL/min to 0.2 mL/min	6.0 %	
Gas flow meter (dry air)	0.2 mL/min to 1 mL/min	3.5 %	
Gas flow rate	1 mL/min to 200 mL/min	0.6 %	
Gas flow meter (dry air)	10 mL/min to 100 mL/min	0.5 %	CCC-02-1002 (Internal instructions)
Gas flow rate			
Gas flow meter (dry air)	0.1 L/min to 115 L/min	0.4 %	CCC-02-1003 (Internal instructions)
Gas flow rate			
Gas flow meter (dry air)	0.05 mL/min to 0.1 mL/min	25.0 %	CCC-02-1004 (Internal instructions)
Gas flow rate	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 %	
	1 mL/min to 2 mL/min	3.1 %	
	2 mL/min to 10 mL/min	1.6 %	
	0.01 L/min to 500 L/min	1 %	
Gas flow meter (dry air)	70 L/min to 200 L/min	0.6 %	CCC-02-1005 (Internal instructions)
Gas flow rate	140 L/min to 500 L/min	0.6 %	
M14 Mechanical	0.001 kPa to 10 kPa	1.3 Pa	CCC-02-01 (Internal instructions)
M14.14 Pressure			
Digital pressure gauge			
Differential pressure gauge			



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CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY <sup>1)</sup>	CALIBRATION PROCEDURE, REMARKS
Digital pressure gauge Differential pressure gauge	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 10 kPa to 100 kPa	1.3 Pa 1.8 Pa, .005 % Whichever larger	CCC-02-03 (Internal instructions)
Digital pressure gauge Gas gauge pressure	20 kPa to 200 kPa 200 kPa to 2000 kPa	30 Pa 33 Pa, 0.005 % whichever larger	CCC-02-04 (Internal instructions)
Digital pressure gauge Gas gauge pressure	-10 kPa to -0.01 kPa 0.001 kPa to 10 kPa	1.8 Pa 1.6 Pa	CCC-02-07 (Internal instructions)
Digital pressure gauge Gas gauge pressure	20 kPa to 200 kPa 200 kPa to 2000 kPa	40 Pa 52 Pa, 0.007 % whichever larger	CCC-02-14 (Internal instructions)
Digital pressure gauge Gas gauge pressure	-90 kPa to -10 kPa -20 kPa to -1 kPa 1.0 kPa to 20 kPa 10 kPa to 100 kPa	12 Pa 5 Pa 3 Pa 3 Pa, 0.007 % whichever larger	CCC-02-08 (Internal instructions)
Digital pressure gauge Gas absolute pressure	20 kPa to 500 kPa 500 kPa to 700 kPa	0.03 kPa 0.05 kPa	CCC-02-09 (Internal instructions)
Digital pressure gauge Gas absolute pressure	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 0.25 kPa to 10 kPa	4 Pa 18 Pa	CCC-02-15 (Internal instructions)



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CODE OF CLASSIFICATION, QUANTITY MEASURAND / CALIBRATION ITEM	RANGE OF CALIBRATION	EXPANDED UNCERTAINTY <sup>1)</sup>	CALIBRATION PROCEDURE, REMARKS
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 1.8 kPa 8 kPa 25 kPa 0.7 kPa	CCC-02-17 (Internal instructions)
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	0.6 kPa 5 kPa 0.6 kPa 0.012 MPa	CCC-02-16 (Internal instructions)
<sup>1)</sup> 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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	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 (APPROXIMATELY 95 % COVERAGE PROBABILITY, $k = 2$ )	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)
Digital pressure gauge Gas gauge pressure	25 Pa to 1000 Pa -1000 Pa to -25 Pa 1 kPa to 20 kPa -20 kPa to -1 kPa 10 kPa to 100 kPa 20 kPa to 200 kPa 200 kPa to 2000 kPa -90 kPa to -10 kPa	4 Pa 4 Pa 0.004 kPa 0.010 kPa 0.8 kPa 0.4 kPa 0.4 kPa 0.3 kPa	CCC-02-25(Internal instructions, On site calibration service)



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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
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)
<sup>1)</sup> 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 ( )		

Japan Accreditation Board