



JAB



Calibration Laboratory

Accreditation
Certificate

Accreditation No. RCL00359



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 30, 2013

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 (3) March 25, 2011
Initial accreditation July 31, 2009

T. Nitta, Chairman
Laboratory Accreditation Committee

H. Kume, Chairman of Board
Japan Accreditation Board



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Cosmo Group Calibration Laboratory

COSMO INSTRUMENTS CO., LTD. Cosmo Group Calibration Laboratory
2974-23, Ishikawacho, Hachioji-shi, Tokyo, 192-0032 Japan
Scope of accreditation :

Calibration service at permanent facilities or on site calibration service : Calibration service at permanent facilities

M14 Mechanical

M14.14 Pressure

Calibration method : CCC-02-01 (in-house method)

Digital Pressure Gauge

Differential Pressure	CMC	Reference Standard
0.001 kPa to 10 kPa	1.3 Pa	Pressure balances

Calibration method : CCC-02-02 (in-house method)

Digital Pressure Gauge

Differential Pressure	CMC	Working Standard
0.001 kPa to 10 kPa	1.6 Pa	Digital Pressure Gauge

Calibration method : CCC-02-03 (in-house method)

Digital Pressure Gauge

Gauge Pressure	CMC	Reference Standard
1.5 kPa to 10 kPa	1.3 Pa	Pressure balances
10 kPa to 100 kPa	1.8 Pa, 0.005 %	Pressure balances
	whichever larger	

Calibration method : CCC-02-04 (in-house method)

Digital Pressure Gauge

Gauge Pressure	CMC	Reference Standard
20 kPa to 200 kPa	30 Pa	Pressure balances
200 kPa to 2000 kPa	33 Pa, 0.005 %	Pressure balances
	whichever larger	

Calibration method : CCC-02-07 (in-house method)

Digital Pressure Gauge

Gauge Pressure	CMC	Reference Standard
-10 kPa to -0.01 kPa	1.8 Pa	Digital Pressure Gauge
Gauge Pressure	CMC	Working Standard
-10 kPa to -0.01 kPa	2.2 Pa	Digital Pressure Gauge
0.001 kPa to 10 kPa	1.6 Pa	Digital Pressure Gauge



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Scope of accreditation :

Calibration method : CCC-02-14 (in-house method)

Digital Pressure Gauge

Gauge Pressure	CMC	Working Standard
20 kPa to 200 kPa	40 Pa	Digital Pressure Gauge
200 kPa to 2000 kPa	52 Pa, 0.007 % whichever larger	Digital Pressure Gauge

Calibration method : CCC-02-08 (in-house method)

Digital Pressure Gauge

Gauge Pressure	CMC	Reference Standard
-90 kPa to -10 kPa	12 Pa	Digital Pressure Gauge
Gauge Pressure	CMC	Working Standard
-90 kPa to -10 kPa	14 Pa	Digital Pressure Gauge
10 kPa to 100 kPa	3 Pa, 0.007 % whichever larger	Digital Pressure Gauge

Calibration method : CCC-02-09 (in-house method)

Digital Pressure Gauge

Absolute Pressure	CMC	Reference Standard
20 kPa to 500 kPa	0.03 kPa	Digital Pressure Gauge

Calibration method : CCC-02-06 (in-house method)

Digital Pressure Gauge

Absolute Pressure	CMC	Reference Standard
900 hPa to 1100 hPa	0.05 hPa	Digital Pressure Gauge
Absolute Pressure	CMC	Working Standard
900 hPa to 1100 hPa	0.07 hPa	Digital Pressure Gauge

Calibration method : CCC-02-05 (in-house method)

Digital Pressure Gauge

Oil Operate	CMC	Reference Standard
Gauge Pressure		
1 MPa to 50 MPa	0.0022 MPa, 0.012 % whichever larger	Digital Pressure Gauge
Oil Operate	CMC	Working Standard
Gauge Pressure		
1 MPa to 50 MPa	0.003 MPa, 0.015 % whichever larger	Digital Pressure Gauge



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Scope of accreditation :

Calibration method : CCC-02-15 (in-house method)

Air Leak Tester

Gauge Pressure	CMC	Working Standard
25 Pa to 1000 Pa	4 Pa	Digital Pressure Gauge
0.25 kPa to 10 kPa	18 Pa	Digital Pressure Gauge

Calibration method : CCC-02-17 (in-house method)

Bourdon Tube Pressure Gauge

Gauge Pressure	CMC	Working Standard
2 kPa to 20 kPa	0.4 kPa	Digital Pressure Gauge
10 kPa to 100 kPa	1 kPa	Digital Pressure Gauge
40 kPa to 200 kPa	1.8 kPa	Digital Pressure Gauge
100 kPa to 1000 kPa	8 kPa	Digital Pressure Gauge
200 kPa to 2000 kPa	25 kPa	Digital Pressure Gauge
-90 kPa to -10 kPa	0.7 kPa	Digital Pressure Gauge

Calibration method : CCC-02-16 (in-house method)

Digital Pressure Gauge (Pressure switches)

Gauge Pressure	CMC	Working Standard
10 kPa to 100 kPa	0.6 kPa	Digital Pressure Gauge
100 kPa to 1000 kPa	5 kPa	Digital Pressure Gauge
-90 kPa to -10 kPa	0.6 kPa	Digital Pressure Gauge

CMC (Calibration and Measurement Capability) : Expanded uncertainty using coverage factor k based on the t -distribution for each effective degree of freedom, and defines an interval estimated to have a level of confidence of 95 %.

Calibration service at permanent facilities or on site calibration service : On site calibration service



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COSMO INSTRUMENTS CO., LTD.
Cosmo Group Calibration Laboratory

Scope of accreditation :

M14 Mechanical

M14.14 Pressure

Calibration method : CCC-02-18 (in-house method)

Air Leak Tester

Gauge Pressure	CMC	Working Standard
25 Pa to 1000 Pa	6 Pa	Digital Pressure Gauge
0.25 kPa to 10 kPa	24 Pa	Digital Pressure Gauge

Bourdon Tube Pressure Gauge

Gauge Pressure	CMC	Working Standard
2 kPa to 20 kPa	0.4 kPa	Digital Pressure Gauge
10 kPa to 100 kPa	1 kPa	Digital Pressure Gauge
40 kPa to 200 kPa	2 kPa	Digital Pressure Gauge
100 kPa to 1000 kPa	8 kPa	Digital Pressure Gauge
200 kPa to 2000 kPa	25 kPa	Digital Pressure Gauge
-90 kPa to -10 kPa	1 kPa	Digital Pressure Gauge

Digital Pressure Gauge (Pressure switches)

Gauge Pressure	CMC	Working Standard
10 kPa to 100 kPa	0.8 kPa	Digital Pressure Gauge
100 kPa to 1000 kPa	6 kPa	Digital Pressure Gauge
-90 kPa to -10 kPa	0.8 kPa	Digital Pressure Gauge

CMC (Calibration and Measurement Capability) : Expanded uncertainty using coverage factor k based on the t -distribution for each effective degree of freedom, and defines an interval estimated to have a level of confidence of 95 %.

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