

1 . Results of Calibration

[Digital pressure gauge]

Applied pressure (kPa)	Indicated value (kPa)	
	Increase	Decrease
699.398	699.448	699.483
1000.876	1000.936	1000.999
2997.270	2997.310	2997.380
4993.67	4993.80	4993.79
6999.92	7000.00	7000.04

Uncertainty of calibration pressure value is 0.0047 %.

This value is an expanded uncertainty multiplied by the coverage factor $k=2$, providing interval estimated to have a level of confidence of approximately 95 %.

REMARKS:

- 1) The calibration was compared with measurement standards of TOKYO AIRCRAFT INSTRUMENT CO., LTD.
- 2) Before calibration, we carried out two times of previous load.
- 3) The digital pressure gauge to be calibrated was installed in the horizontal state, and the pressure standard height was assumed as the central location of the connector.
- 4) The measurement pressure was absolute gas pressure and nitrogen was assumed to be a pressure medium..
- 5) Absolute gas pressure was obtained by adding the atmospheric pressure to the gauge pressure.
- 6) We performed pressure measurements at five points and performed three times of coming and going of pressure increase / the decrease. For each with pressure increase and decrease, we calculated the indication value of the digital pressure gauge to be calibrated, from the mean of the value that we read three times.
- 7) During calibration, the reading value of the digital pressure gauge to be calibrated, at 0 points, was 0.258 kPa before pressure increased, and 0.281 kPa after pressure decreased. We measured 0 points since we exhausted a vacuum with turbo pump and confirmed that the reading value of the hot cathode gauge was less than 0.01 Pa.

1 . Calibration Condition

Temperature: 23.0 °C ± 0.0 °C Relative humidity: 50 % ± 0 %
 Atmosphere: 100.0 kPa ± 0.0 kPa

2 . Measurement Standard

	Model / Serial No.	Certificate No.
Pressure Balance	2465A-754 / 71986 (C-468)	0 9 1 0 1 4
	2465A-754 / 71986 (V-1435)	0 9 5 2 3 9
Atmospheric Pressure Meter	PTB220 / X3010009	1 0 2 0 1 3

---End of the certificate---