Accreditation No.72623

Calibration Certificate

Name	○○○○○○○○
Address	○○○○○○○○
Description	Digital Force Gauge
Model	ZTS-500N
Serial No.	○○○○○○
Range / Resolution	Range 500 N / Resolution 0.1 N
Tolerance	± 0.2 % F.S. Required Accuracy 0.2 % F.S.
Calibrated Range	500N
Procedure	In accordance with 'IMADA Co., Ltd. ISO/IEC17025 Calibration Procedure'
Direction	Compression
Ambient Conditions	As stated on the following page
Results	As stated on the following page
Calibrated Date	○○○○/○○/○○
Location of Laboratory	IMADA CO., LTD. 99 Jinnoshinden-cho aza Kanowari Toyohashi Aichi JAPAN 441-8077

We hereby certify that the calibration result was as stated above.

IMADA CO., LTD.
99 Jinnoshinden-cho aza Kanowari Toyohashi Aichi JAPAN 441-8077
Managing Director ○○○○○○○

SAMPLE

FORCE MEASUREMENT
IMADA

Calibration Conditions

1) This calibration has been conducted using the reference standards as below:

Reference Standards	Category No.	Serial No.	Certificate No.
Load Cell LUH-500KF(Compression 5KN)	JC1020001	LUH-500KF	51-85729-1

2) The procedure followed is as specified in 'IMADA CO., LTD. ISO/IEC17025 Calibration Procedure'.

3) The calibration has been carried out after preloading.

   (500N or less: 3 times / 1000N and above: over 10 secs.)

4) Estimated gravitational acceleration at the laboratory is 9.79749m/s².

5) The temperature of the laboratory was   22 ℃   and the humidity   41 %

Calibration Results

Test Point Fr (N)	Reading Fm (N)	Deviation Pa (%)	Test Point Fr (N)	Reading Fm (N)	Deviation Pa (%)
500	500	0			
1000	1002	0.04			
1500	1501	0.02			
2000	2002	0.04			
2500	2502	0.04			
3000	3003	0.06			
3500	3503	0.06			
4000	4004	0.08			
4500	4504	0.08			
5000	5004	0.08			
Max. Expanded Uncertainty (K=2)			0.026 %		

Max. expanded uncertainty is based on the combined standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

The deviation Pa is the referential value resolution calculated as below;

$$Pa = \{(Fm\text{-}Fr)/C\} \times 100 \, [\%]$$

Without considering the uncertainty and the combined standard uncertainty,
this instrument was calibrated and the readings thereof were found   to meet
the required accuracy of   "   500   N   ±   0.2   % F.S. "   ; provided,
however, that this may not apply when the uncertainty and the combined standard uncertainty
are taken into consideration.

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