

## DS2 Series ~Economical Digital Force Gauge~

Simple function digital force gauge  
Suitable for checking peak value by digital  
Ideal for hand-use force measurement due to the lightweight and the easy grip design.

### ◆Displayed in digital.

Reading value is easier than in analogue type.

### ◆Reversible display

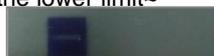
The display can be reversed by easy button operation.



### ◆OK/NG Judgment

Easy to check OK or NG value by setting upper and lower limit

-NG ~under the lower limit~



Displayed value < lower limit

OK ~between upper and lower limit~

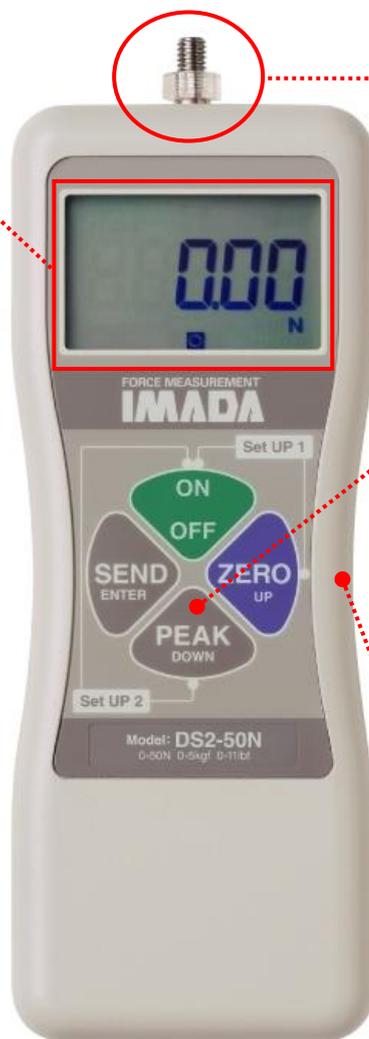


Lower limit < Displayed value < Upper value

+NG ~ over the upper limit



Upper limit < Displayed value



Measuring various tension/compression force by installing an attachment.

It is only one push to turn on peak hold mode.

The easy-grip design helps stable measurement.

### [6 included attachments]

Simple tension/compression measurement are possible with included attachments below.

Small hook A-1(S-1)(SR-1)	Disk shaped A-2(S-2)	Conical shaped A-3(S-3)	Chisel tip A-4(S-4)	Notched tip A-5(S-5)	Extension rod A-6(S-6)

\*A type (made of aluminum) is included in 100N or less capacity force gauges, S type (made of steel) is included for in 200N to 1000N capacity force gauges.

\*SR-1 is including for 1000N capacity.

## Application

Using with a test stand and a software helps

### Effective and Accurate Measurement /Data management

The test stand enables to set measurement condition uniform.

The transferred data to PC can be saved easily and precisely with the software.



Graphing software via RS232C ZLNK3↑

Manual Test StandSVL-1000N→



\*Connection cable CB-203 is required for using ZLNK3.

### [DS2 Series specifications]

Model	DS2 Series
Accuracy	±0.2%F.S.±1digit
Unit of measurement	N
Display update	4-digit LCD
Sampling rate	1000 data/sec. (Max.)
Battery	10 hours (Full charge for 10 hours)
Safe overload rating	Approx. 200% F.S.
Power	Rechargeable NiMH battery pack, AC adapter
Operating environment	Temperature : 0 to +40 degree Celsius Humidity : 20 -80%RH
Functions	Peak hold (tension and compression)/ Comparator(judgment of acceptance or rejection)/ Reversible display / Dumping (2 Levels)
Output	RS232C/Mitutoyo digimatic (*1) /Analog(+/- 1V F.S.)
Overload warning	Approx.110% F.S.(Display flashing)
External connecting switch	SEND (a point of contact holding) / Zero reset/Peak ON/OFF setting
Weight	Approx. 420g (*2)
Dimensions	Please refer to dimensions
Accessory	AC adapter/ Inspection certificate/Carrying case/ Attachments (Included attachments depend on the force gage range.)

\*1 NOT always available for Mitutoyo digimatic products.

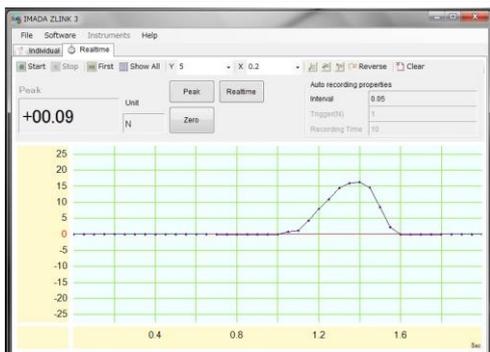
\*2 The weight is slightly different depending on the range.

### [DS2 Available models]

Model	Capacity	Display	Resolution	Thread	Including attachment
DS2-2N	2N	2.000N	0.001N	M6	A1~A6
DS2-5N	5N	5.000N	0.001N		
DS2-20N	20N	20.00N	0.01N		
DS2-50N	50N	50.00N	0.01N		
DS2-200N	200N	200.0N	0.1N		(SR-1) S1~S6
DS2-500N	500N	500.0N	0.1N		
DS2-1000N	1000N	1000N	1N		

**[Related Products]**

**Graphing Software : ZLINK3**



**Main Features of ZLINK3**

- Force-time graph is able to be drawn at Max 50 times per second.
- Captured data can be saved as CSV file.

\*Please refer to ZLINK3 specification if necessary.  
\*RS232C cable B-203 is necessary to connect DS2 series and PC(PC side connector is 25P male B-201,25P female CB-202 as well).

**Standard model digital force gauge ZTS series**

Standard model for reproducible measurement.  
Data management is easy due to USB connecting with PC.



ZTS Series

**The main features of ZTS**

- ① Useful and clear display.
- ② Reproducible high speed sampling enables to capture peak value precisely.
- ③ Easy data management by included software “ZT-Logger”.
- ④ Multiple functions for improving the usability of various situations.

\*Please refer to ZTS specification if necessary.

**Printer : DP-1VR**



It can print displayed value and inner memory data on the spot. (Required cable:CB-301)

**Handle : FOH-1**

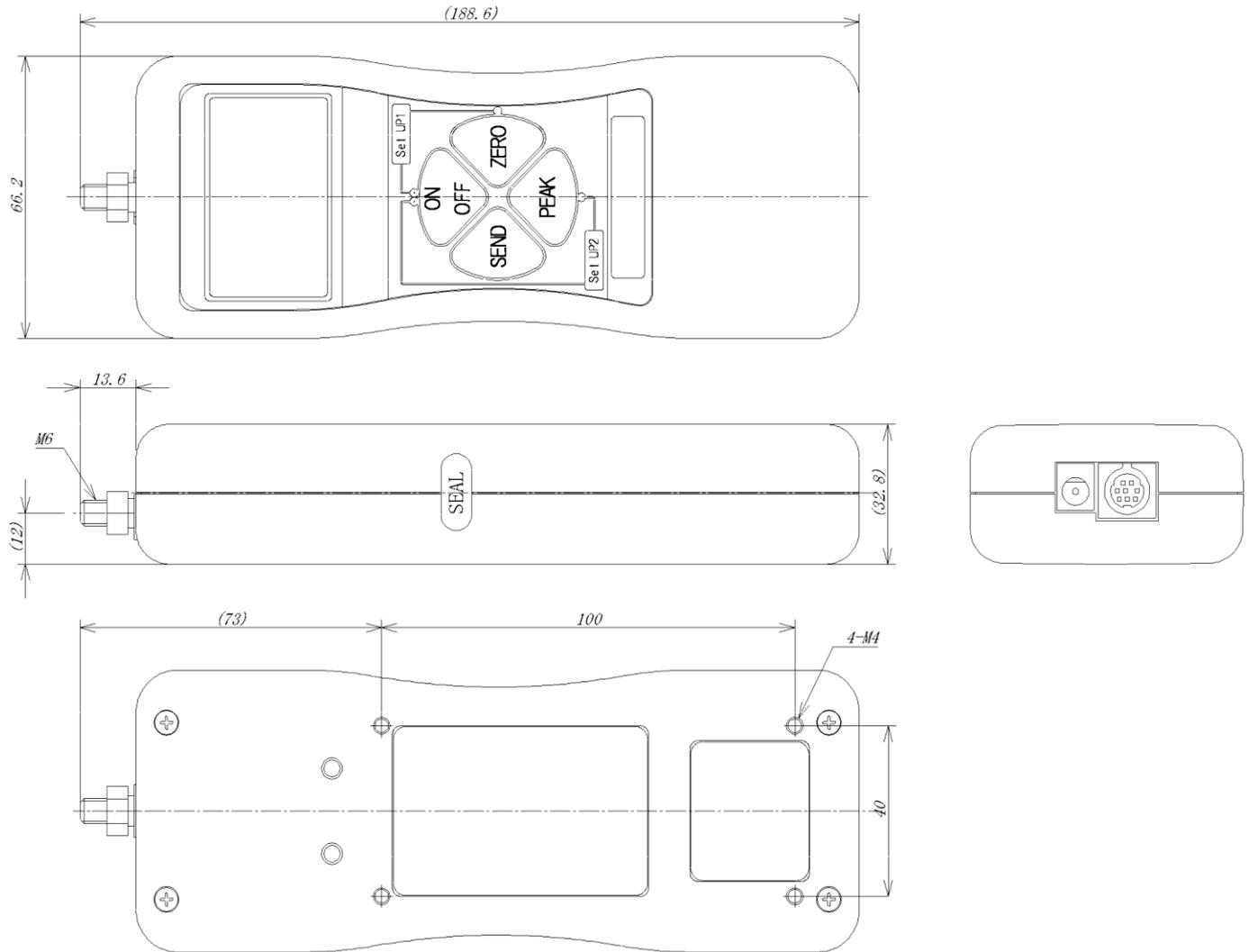


Strong force is able to apply stably at using a force gauge by hands.

**[Related Cables]**

Model	Description	Purpose of use
CB-101	Analogue cable	Connecting multi-meter or oscilloscope
CB-203	RS232C Cable(9P)	Connecting PC using ZLINK3
CB-201	RS232C Cable(25P male)	Connecting PC using ZLINK3
CB-202	RS232C Cable(25P female)	Connecting PC using ZLINK3
CB-301	Digimatic Cable	Connecting Printer DP-1VR

## [Dimensions]



## [Calibration Certificate]

- We offer calibration certificate with extra charge.
- We also offer calibration services according to ISO/IEC17025: 2005

## [Caution]

- This product is designed for force measurement only. Do not use it for other purpose.
- Do not copy and use this content without authority.
- Please note add load over capacity, or add force from side or torsion, its sensor would be broken down.
- The contents may be changed without notice in advance.
- Please note the allowable values are a little different by the selecting unit of the amplifier. Please contact us if you need the details.