

High Functionality Model Digital Force Gauge ZTA series

-Fast sampling for both Peak Values and Continuous Data, achieving high reproducibility
-Clear OLED display with a variety of significant capabilities
-Measurement benefit increased by external output and practical functions
-Allows easy Data acquisition and management with the included software
-Displacement output (*1)

*The **ZTA Series** is a high functional model with additional functions added to the specifications of the standard model **ZTS Series**. Please refer to pages 2 - 3 for detailed features.

*1 A test stand with a linear scale and a dedicated cable to input/output displacement are necessary.



ZTA-2N~1000N

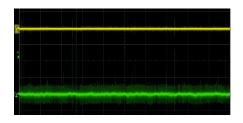
High Load Model ZTA-2500N~5000N Product Package with included Accessories

[Evolution to the Next Series]

Next Series is a generic term for IMADA Force-Gauges and Testing devices with upgraded functions, performances with the essential modifications: -New Series: ZTA Series Firmware Ver.5 or later.

New Features

-Increased measurement stability achieved from further noise reduction to the measurement circuit.



Analog output comparison Yellow: Next series/Green: Old Model -Force gauge program (firmware) online updates available.

-Various Software Downloads for additional options to increase the measurement conveniences.



<IMADA download site from end November 2021>



[Common Features with ZTS series]

Fast sampling for both Peak Values and Continuous Data, achieving high reproducibility

High-speed sampling of up to 2000 times/second updates measured values for more accurate peak-value readings.

By using the optional software sold separately (refer to P.5), graphed as continuous Data with the sampling data of up to 2000 times/second, and even frictional Load changes visualized and evaluated.

*The Test Results vary depending on the sample and measurement conditions.

Clear OLED display with a variety of significant capabilities

The OLED provides excellent contrast and high visibility, which reduces errors in reading measurement results.

In addition, the display screen can be divided into three sections, allowing to customize the display contents for liking, such as calendar, bar graph and Comparator setting values on the top and bottom.

In addition, it has various display capabilities such as a multi-language setting menu and overload warning display.

Measurement benefit increased by external output and practical functions

By providing a wide range of data output options such as USB, wireless, serial communication, and analog output, it can be used in a wide range of situations from data management on a PC to interlocking with various devices.

The system used to control external devices, such as stopping the the machine at a specified load value, or to create an inspection device linked to a work process in order to improve the efficiency of the inspection process.

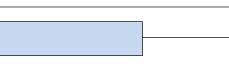
Allows easy Data acquisition and management with the included software

USB Cable and software *Force Logger* included in the original package to proceed with the data management when purchased.

With the software, displayed values and internal memory data stored in a force gauge and continuous data acquired (10 data per second).

It also allows to change and save the Force-Gauge settings from facilitating the management of measurement conditions. (Please refer to P.4 for the system requirements.





Destructive test comparison of the same sample by sampling speed: --Left Sampling speed 2000Hz -Right Sampling speed 100Hz The less variation shown in the left results

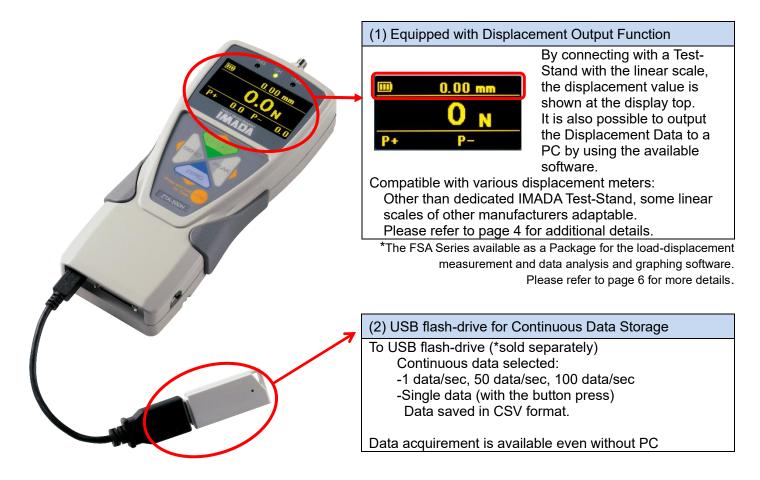




The warning light and other devices may be used to detect measurement abnormalities.



[Original Features of ZTA series]



-Different Design for the models 2500N and above -USB flash-drive sold separately

(3) Display with Special ZTA Features					
Value Display Maximum / Minimum	Average Load Value	Peak Value Detection 1 st and 2 nd Values			
Displays the Max. and Min Load Values from the memory stored in the main unit.	Ave +4.31 0.00 N Max+20.81 Min -7.19 Calculate the average value of the memory stored in the unit	Image: set of the			
The display convenient for grasping the tendency of measurement results when measuring peak values.		Used to measure samples with click feelings: - Clicking tip of the Mechanical pencil and pens and the Camera Shutter Button.			



[Specifications of ZTA series]

	-			
Model	ZTA			
Feature	Standard Model with high functionality and usability.			
Accuracy	+/-0.2%F.S.+/-1digit			
Measurement Unit	N, kgf, lbf (*1)			
Display	4-digit Organic EL			
Display update	16 / sec			
Sampling Rate	2000 data / sec at maximum (*2)			
Battery	6.5 hours (2 hours for re-charging) (*3)			
Safe overload rating	Approx.200%F.S.			
Operating environment	Temperature: 0 to +40 degree Celsius, Humidity: 20 to 80%RH			
Function	Customized display (header and footer), Peak hold (tension and compression), Interna 1000 points data memory, Comparator (judgment of OK or NG), Reversible display, Sig inversion, Zero clear timer, +NG alarm, Off timer (auto power off), Dumping, Time displa 1st/2nd peak, Displacement detection at force peak value, Displacement zero reset at selected force, Setting lock			
Output	USB (2.0 / 3.0), RS232C / 2 VDC analog output (D/A), Comparator 3 steps (-NG/OK/+NG), Overload alarm			
Overload warning	Approx.110%F.S. (Warning message and alarm)			
External connecting switch	Power ON / OFF / Send and Hold / Zero reset / Peak and Real-time switching			
Available linear scales (*4)	 Online driver output (a line receiver according to RS422/485 must be built in.) Open collector output (Voltage drop between contacts must be smaller than 0.5V.) 			
Weight	From 2N to 1000N Model: Approx.490g (*5) 2500N, 5000N: Approx.1100g (*5)			
Dimensions	Please refer to dimensions.			
Accessory	AC adapter, Inspection certificate, CD driver (including data logging software), Attachme (The set of attachments varies according to range.), Handles (only for 2500N/5000N range), USB cable, Carrying case, Adaptor for USB fla drive (*6)			

*1 The measurement Unit: mN displayed for models of 5N or less, and kN displayed for models of 1000N or more.

In addition, possible to display the unit kg (g: 5N or less range) as a conversion value.

*2 Up to 100 data/sec. is saved in USB memory (selectable among 1, 50, and 100 /sec).

*3 The battery is more consumed when connected to USB flash drive or a linear scale.

*4 Some linear scales could not be available even if they meet the mentioned specifications.

*5 The Weight differs according to the Model range.

*6 USB flash drive is not included.

[Option]

Option	Description	Model
Analog output: RAW	The raw analog data is output without digital processing	-AN

-For this option, add the code (-AN) to the end of the Product Model Number. (Example: ZTS-500N-AN)

-This option requires a dedicated cable CB-118 sold separately.

-Data responsiveness is higher than standard analog output (D / A), with the disadvantages of Zero reset disable and high noise components.

IMADA CO.,LTD. High Functionality Model Digital Force Gauge ZTA series



[ZTS series models]

Model	Capacity	Display	Resolution	Thread	Included attachment
ZTA-2N	2N	2.000N (2000mN)	0.001N (1mN)		
ZTA-5N	5N	5.000N (5000mN)	0.001N (1mN)]	
ZTA-20N	20N	20.00N	0.01N		A1~A8
ZTA-50N	50N	50.00N	0.01N	M6	
ZTA-100N	100N	100.0N	0.1N	IVIO	
ZTA-200N	200N	200.0N	0.1N		S1∼S8
ZTA-500N	500N	500.0N	0.1N]	31/~30
ZTA-1000N	1000N	1000N (1.000kN)	1N (0.001kN)		RS1, S2 \sim S8
ZTA-2500N	2500N	2500N (2.500kN)	1N (0.001kN)	M10	B1∼B8
ZTA-5000N	5000N	5000N (5.000kN)	1N (0.001kN)	IVITU	DT °D0

[Included Accessories]

-Force Logger: Data Acquisition Graphing Software

Tax Toplay/Sound JTV Print Dauge Wielers Information	
73-204 (00000) Data	Easy Importing of the Measurement Data
0.00 x 1 EE 6 C 20 20107 2010 x 1 EE 6 C 20 20107 2010 x 10 K 6 D 250 2010 x 10 K 10 2010 2010 x 10 K 10 10 10 10 10 10 10 10 10 10 10 10 10	-Display Acquired Data Value Statistics: -Maximum / Minimum /
4 118 N CK 153746 202001 C 0.38 K CK 153746 202001 C 0.39 K CK 153746 202001 C 0.39 K 400 11320 202001 1 1020 K 400 11320 202001	Average Values.
1000 1 10.7 6 440 10.200 30.74171 594575555 1000 10.7 6 10.7 1	-Data saved in CSV format
Argent Mat S STAFT 10 1021 5 4.5 10.168	-Continuous Data acquisition up to 10 times per second.
H -751 h -40 191202 1912021 Statistics, Senit Excess B -354 h -46 191203 91201021	-Force-Gauge Function Settings.
9.54 N D UA 6 CK DANS JANNOT B D12 N CK DANS JANNOT B D13 N CK DANS JANNOT	Operating environment
OK 9 1179 6 07 12827 282401 1 129 6 07 12827 282401 1 129 6 07 1829 1829 182401 1 129 6 07 1829 1829 1829 1 129 6 07 1829 1 129 7 18	- OS: 7/8/8.1/10 (32/64bit version is available)
33 31.55 b. 402 D1425 D12745711 34 1044 b. 402 D14255 D12746711 34 1047 b. 402 D14255 D12746711 35 1122 b. 05 D12746711 D1255 D12746711 35 1122 b. 05 D12805 D12746711 36 1122 b. 05 D12805 D12746711 36 1122 b. 05 D12805 D12746711 37 1128 b. 07 0700071 D12805	- Hardware: CPU Pentium4(1GHz or more), Memory 2GB, Hard disk:
in a	10GB or more recommended
Demots	- Platform: .NET Framework4.6 or later

-Standard Force-Gauge Attachments (Accessories): For Axis size M6 Force-Gauge Capacity 100N or less: A-Types (Aluminum)

Force-Gauge Capacity 100N of less. A-Types (Aluminum Force-Gauge Capacity 200N -1000N: S-Types (Steel)

A-1/S-1 *SR-1	A-2/S-2	A-3/S-3	A-4/S-4	A-5/S-5	A-6/S-6	A-7/S-7	A-8/S-8
Small Hook	Disk Tip	Conical Tip	Chisel Tip	Notched Tip	Extension Rod	Large Hook	Y Hook
2	7						Y
Tension	Compression	Compression	Compression	Compression	Axis Length Adjustment	Tension	Tension

*Small Hook S-1 for Capacity 200N - 500N, and SR-1 for Capacity 1000N.

-High-Capacity Force Gauge Attachments (Accessories) : For Axis size M10 Force-Gauge Ranges 2500N-5000N: B-Types (Steel)

B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Small Hook	Disk Tip	Conical Tip	Chisel Tip	Notched Tip	Extension Rod	Handle	Mounting Bolts
7							
Tension	Compression	Compression	Compression	Compression	Axis Length Adjustment	For High Capacity Models	For High Capacity Models



[Related Products]

Graphing and Data Acquisition Software: Force Recorder Series					
The Standard Version Image		or 1000 times/second minimal load changes. -Up to 5 graphs overla and Professional versi- -Notes added for recor -For Data managing an Image Data. *4 Software versions avail (Force Recorder Light /	munication (up to 2000 times/second for Plus version) enables graphing for id for comparison with the Standard ons. (10 graphs with Plus version) d keeping of the measurements nd reporting, Graphs pasted as the able for different requirements Standard / Professional and Plus) idual Manuals for details.		
The Standard Version Image		t measuring unit: FSA	sorios		
Force- displacement		The FSA series is a unit for force-displacement measurement . Also, its high responsivity (2000Hz) offers precise measurement results with a smooth graph of force- displacement 1. Software Force Recorder (Professional) 2. Digital force gauge ZTA series 3. Test stand with a linear scale 4. Cable			
FSA-1KE series	FSA-1KE series		s specifications for more details.		
Wi	Wireless Data Transmit System: WL01 Series				
Wheless Data Tra		 -Wireless communication allows the Data received from remote locations. -The Data reception detection and interference prevention functions support stable communication. -The communication format opened to the public and incorporated into the available facilities possible. Note -Compatible with firmware Ver3.10 or later. -Restrictions on the countries and regions for use. -Please refer to [Wireless System] Specifications for details. 			
Handle FOH-1 (*1)	Linear	scale DMK series	Rechargeable Battery: BP-308		
	Contraction of the second seco				
Attach to the Force Gauge for firm-hold and stable operation with both hands	d Using with a ZTA series to do force- displacement measurement Rechargeable Battery for r				

*1 High-Capacity Type ZTS-2500N/5000N is not mountable. Handles for the high-capacity type is included.



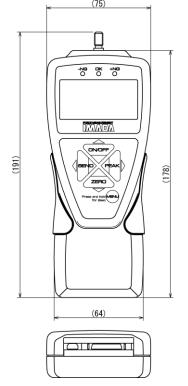
[Cables]

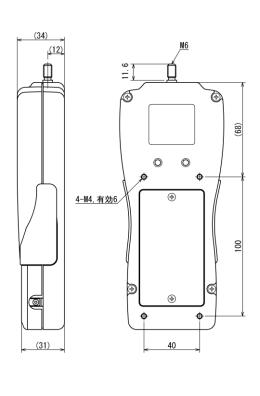
Models	Names	Descriptions
CB-108	Analog Cable	To connect to a multi-meter oscilloscope.
CB-118	Analog cable (For -AN option)	To connect to a multi-meter oscilloscope.
CB-208	RS232C Cable	To connect to a PC having its system
CB-508	Test stand option cable (For MX Series)	To connect to a test stand to enable force control or overload prevention functions.
CB-528	Test stand option Cable (for MX2 / MX Series)	To connect to a test stand to enable force control or overload prevention functions.
CB-718	Test stand connection cable for displacement measurement (For MX2-FA/EMX-FA)	To connect to a test stand having length meter to enable force displacement measurement, force control or overload prevention functions.
CB-908	Open End Connection Cable	Output cable for loose wire 37 pin (Useful for connection with unique equipment.)

[Other Options]

Force gauge ZTS series	Sensor-separate force gauge ZTS/ZTA Series	EZ-Connect series: Sensor- interchangeable Amplifier eZT
Standard model of ZTA series which has the same benefit in performance but reduced functionality.	External sensor type for use in the restricted environment (narrow space etc.) or installing into the specific facilities.	The amplifier enables to connect to the various eZ-Connect Series Load Cells.

[Dimensions: ~1000N]

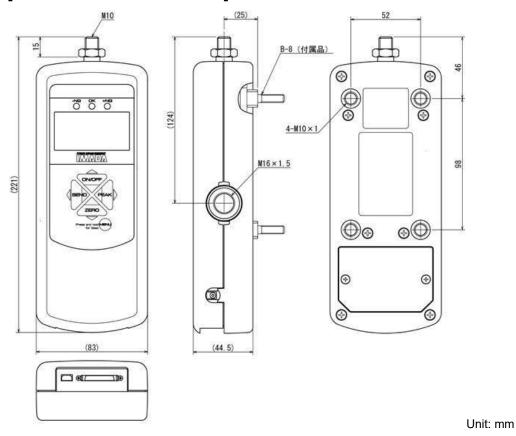




Unit: mm



[Dimensions: 2500N~5000N]



[ISO Calibration Service and Calibration Certificate]

-We are the accredited ISO / IEC 17025: 2017 Calibration Organization with the in-house Calibration Service facility. -The Calibration Service and Issuing of the Calibration Certificates available at cost.

-For further information, please kindly contact the local authorized distributor or us.

[Caution]

-Information in this document is subject to change without prior notice.

-This product is designed for force measurement purposes only.

-Do not copy and use this content without authorization.

-Do not apply force more than its capacity and from incorrect direction to the measuring shaft.

-Note that the allowable values may vary slightly depending on the unit selected on display. Please contact us for more information and details.

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