

## **High-functional Type with Various Functions**

# ZTA series (Basic Model)

This series have the highest functionality. They have 2 remarkable points; 1. They input or output displacement. 2. They can connect to USB flash drive to save the original graph data.

ZTA has all the functions of ZTS(Page 09) with a few more additional features, including I/O for displacement, saving data to USB flash drive, and more.

**OZTA** series features

## **Input and Output Displacement**

**©Force vs displacement data management on PC** You can use FSA series (Force-Displacement Analysis Unit) [Page 45] to manage force-displacement data on PC.

Showing displacement on a force gauge with a test stand You can use a FA version test stand [Page 29.30] together to show displacement on a force gauge

You need an optional cable [Page 23] for that.

**Measuring force-displacement with external facilities.** 

You can use built-in linear scale [Page 24] together with ZTA.

## Data Saving to a USB Flash Drive

OData Saving into a USB Flash Drive at 100Hz.

Series of data can be saved without PC.

Compression and

□Size:Approx.W75×D34×H191mm Tension Compatible | Weight: Approx. 490g



### Check Force Transition on Graphs

Software Force Recorder —



#### **Print The Results**

Printer DP-1VR To Page 24 +Cable CB-308 To Page 23



#### **Connect with External Devices**

Cable Using Applications ——



## **Analyze Force-Displacement Relation**

Improve Measuring Repeatability

Apply Stable Force by Hand

Handle FOH-1 —

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Force-Displacement Analysis Unit — **To Page 45** 

±/-0.2%ES ±/-1digit

#### **ZTA** series model list

Model	Capacity	Display	Thread
ZTA-2N	2N	2.000N/2000mN(200.0gf)	
ZTA-5N	5N	5.000N/5000mN(500.0gf)	
ZTA-20N	20N	20.00N(2.000kgf)	
ZTA-50N	50N	50.00N(5.000kgf)	м6
ZTA-100N	100N	100.0N(10.00kgf)	
ZTA-200N	200N	200.0N(20.00kgf)	
ZTA-500N	500N	500.0N(50.00kgf)	
ZTA-1000N	1000N	1000N/1.000kN(100.0kgf)	

- \*\*1 The model less than 5N can be displayed mN, the model more than 1000N can be displayed kN. Japanese domestic model does not indicate kgf and lbf units.
  \*\*2 Not always available for Mitutoyo digimatic products.
- \*3 Maximum 100 data/sec capturing series of data with a USB flash drive.
- \*\*4 A USB flash drive and a liner scalc consume more battery. Thus, when you combine ZTA with the USB flash drive or the liner scale, the battery runs out faster.
- \*5 A USB flash drive is not included.
- %6 Please refer to Page 35 for the detail of accessory attachments.
- OThe weights are slightly different by the ranges

### **ZTA** series specifications

Accuracy	+/-0.2761 .3.+/-1 digit
Unit of measurement(%1)	N, kgf, lbf(%1)
Display	4-digit Organic EL
Sampling rate	2000Hz (2000 data / sec) at maximum
Function	Customized display (header and footer), Peak hold (tension and compression), Internal 1000 points data memory, Comparator (judgement of OK or NG), Reversible display, Sign inversion, Zero clear timer, +NG alarm, Off timer (auto power off), Dumping, Time display, 1st/2nd peak, Displacement detection at force peak value, Displacement zero reset at selected force
Output	USB, RS232C, Mitutoyo digimatic (%2), 2 VDC analog output (D/A), Comparator 3 steps (-NG/OK/+NG), Overload alarm, Sub comparator 2 steps (output of large or small judgment), USB flash drive(%3), Displacement(%4)
Operating environment	Temperature: 0 to +40 degree Celsius, Humidity: 20 to 80%RH
Battery	8 hours (2 hours charge)
Accessory(%5)	Attachments (%6),AC adapter, Inspection certificate, CD driver (including simple software for data logging), USB cable, Carrying case, Adaptor for USB flash drive.

## **ZTA series** (High Capacity Model)



- The load capacity ranges from 2500N to 5000N.
- OThis model has the same functions and performance as ZTA series basic model.



## **Print The Results**

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**Improve Measuring Repeatability** Test Stands -To Page 28



**Connect with External Devices** Cable Using Applications — To Page 24



**Analyze Force-Displacement Relation** Force-Displacement Analysis Unit— To Page 21

### High Capacity Model List

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Tension Compatible

Model	Capacity	Display	Thread
ZTA-2500N	2500N (250kgf)	2500N/2.500kN (250.0kgf)	010
ZTA-5000N	5000N (500kgf)	5000N/5.000kN (500.0kgf)	WILL

□Weight: Approx. 1100g



- Olt is ideal for installing into facilities or measuring under special circumstance due to an external sensor. • We offer a wide range of sensors such as waterproof, wide temperature range, pen shape, and more to meet
  - your force measurement requirement. ※Please select one load cell from page 17 to 19.







This model has the same functions and performance as ZTA series basic model.



**Check Force Transition on Graphs** Software Force Recorder —



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Connect with External Devices Cable Using Applications — To Page 24



Connect with a Linear Scale

Built-in Linear Scale Unit -To Page 24

#### Sensor separate type Model List (When selecting load cell DPU series [High capacity model]) (When selecting load cell DPU series)

Model	Capacity	Display	Thread
ZTA-DPU-2N	2N	2.000N (2000mN)	
ZTA-DPU-5N	5N	5.000N (5000mN)	
ZTA-DPU-10N	10N	10.00N	
ZTA-DPU-20N	20N	20.00N	M6
ZTA-DPU-50N	50N	50.00N	MO
ZTA-DPU-100N	100N	100.0N	
ZTA-DPU-200N	200N	200.0N	
ZTA-DPU-500N	500N	500.0N	]

 $\square$ Size (the indicator only) : Approx.W75 × D34 × H188mm

Weight (the indicator only): Approx.490g

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Model	Capacity	Display	Thread	
ZTA-DPU-1000N	1000N	1000N (1.000kN)		
ZTA-DPU-2000N	2000N	2000N (2.000kN)	M10	
ZTA-DPU-5000N	5000N	5000N (5.000kN)		
ZTA-DPU-10kN	10kN	10.00kN	M18P1.5	
ZTA-DPU-20kN	20kN	20.00kN	Depth22 female screv	

OPlease refer to Page 17 for the detail of load cell DPU series

An example of separated sensor ZTA-LM-500N Load cell model model combined with a load cell

\*In the case where you combine ZTA with a load cell, LM-500N