Standard Type with High Reproducibility

ZTS series (Basic Model)

This is user-friendly and functional model.
This series of gauges can be used for a wide range of measuring purposes from peak measurement to highly repeatable measurement.
The gauges come with data capturing software.

Accurately / Precisely

◎**High Speed Sampling:2000Hz**
It follows rapid force change, capturing peak values more accurately.

◎**High Accuracy:±0.2%F.S±1digit**

User-friendly

◎**High Luminance Organic EL Display**
Clear organic display has excellent readability.

◎**8 languages available**
Setting menu in 8 languages helps easy operation.

Making efficient

◎**OK・NG Judgment Function**
You can pick out defective products easily.
(+NG or –NG light goes on when the force is over or under the borderline that you have decided.)

◎**3 Line Indicator**
A force value is indicated in the middle tier, and you can select information as required in the upper and lower tiers.

◎**Connect and Link to Various External Equipment.**

Easy Data Management on PC

◎**Data Capturing Software ZT Logger is included.**
－It sends 10 data/sec to PC.
－It automatically detects maximum and minimum values.
－It saves data in CSV format.

▲ Force Capturing Software ZT-Logger (Included)
▲ Force Graphing Software (Separately Sold) Force Recorder

◎**Graphing by Optional Force Graphing Software**
The software shows force vs time graphically on PC in real time (at Max.2000Hz) The detail is in Page 20.

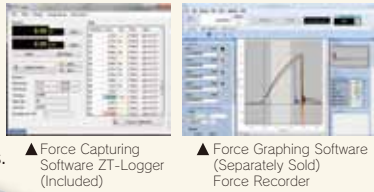**Compression and Tension Compatible**
□Size：Approx.W75×D34×H191mm
□Weight：Approx.490g

ZTS set

Check Force Transition on Graphs
Software Force Recorder ———— **To Page 21**

Print The Results
Printer DP-1VR ———— **To Page 24**
+Cable CB-308 ———— **To Page 23**

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

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

Apply Stable Force by Hand
Handle FOH-1 ———— **To Page 43**

ZTS series (High Capacity Model)

◎The load capacity ranges from 2500N to 5000N.
◎This model has the same functions and performance as ZTS series basic model.

ZTS (High capacity model) set

Compression and Tension Compatible
□Size：Approx.W83×D44.5×H221mm
□Weight：Approx.1100g

Check Force Transition on Graphs
Software Force Recorder ———— **To Page 21**

Print The Results
Printer DP-1VR ———— **To Page 24**
+Cable CB-308 ———— **To Page 23**

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

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

■High Capacity Model List

Model	Capacity	Display	Thread
ZTS-2500N	2500N	2500N (2.500kN)	M10
ZTS-5000N	5000N	5000N (5.000kN)	M10

ZTS series (Separated Sensor Model)

◎It 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.
※Sensor interchangeable model eZ Connect(page16)is recommended for those who change load cells.

◎This model has the same functions and performance as ZTS series basic model.
(Accuracy and testing direction is determined by the sensor combined with the indicator.)

Check Force Transition on Graphs
Software Force Recorder ———— **To Page 21**

Print The Results
Printer DP-1VR ———— **To Page 24**
+Cable CB-308 ———— **To Page 23**

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

ZTS (Separated sensor model) set

□Size(the indicator only)：Approx.W75×D34×H188mm
□Weight(the indicator only)：Approx.490g

■ZTS series specifications

Accuracy	+/-0.2%F.S.+/-1digit(Excepted sensor separated model)
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
Output	Temperature: 0 to +40 degree Celsius, Humidity: 20 to 80%RH
Operating environment	USB, RS232C, Mitutoyo digimatic (※2), ±2 VDC analog output (D/A), Comparator 3 steps (-NG/OK/+NG), Overload alarm
Battery	8 hours (2 hours full charge)
Accessory	Attachments(※3), AC adapter, Inspection certificate, CD-driver(including simple software for data logging), USB cable, Carrying case.

■Standard Type Model List

Model	Capacity	Display	Thread
ZTS-2N	2N	2.000N/2000mN(200.0gf)	
ZTS-5N	5N	5.000N/5000mN(500.0gf)	
ZTS-20N	20N	20.00N(2.000kgf)	
ZTS-50N	50N	50.00N(5.000kgf)	M6
ZTS-100N	100N	100.0N(10.000kgf)	
ZTS-200N	200N	200.0N(20.000kgf)	
ZTS-500N	500N	500.0N(50.00kgf)	
ZTS-1000N	1000N	1000N/1.000kN(100.0kgf)	

■Sensor separate type Model List
(When selecting load cell DPU series)

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

(When selecting load cell DPU series [High capacity model])

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

◎Please refer to Page 17 for the detail of load cell DPU series.

An example of separated sensor model combined with a load cell
ZTS-LM-500N
┌ Load cell model
└ Choose ZTS or ZTA
※In the case where you combine ZTS with a load cell, LM-500N

※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 Please refer to Page 35 for the detail of accessory attachments.
◎The weights are slightly different by the ranges.

On our website, you can see a wide range of force testing applications, and download a specification sheet of each product. Please feel free to contact us.
●IMADA service group telephone number: **+81(0)532-33-3288**

IMADA Search http://www.forcegauge.net/en/