imada.com ®

FORCE & TORQUE MEASUREMENT
ISO 9001 & ISO/IEC 17025 ACCREDITED

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Process 2,000 Data/Second not just the peak!

Luminescent EL Display, User-Friendly, Multi-Language Menu, Digital Force Gauge

Series ZTS (Standard)   Series ZTA (Advanced)

ZTS/ZTA Standard Features
- EL electro luminescent display is highly visible in dark locations
- Multi-langauge program menus: English, Spanish, French, Chinese, German, Italian, Korean, Japanese
- Processes and transmits 2,000 data/sec.
- Color-coded LED indicators and output signal for Go/No Go testing
- Ergonomic design with non-slip grips, heavy duty metal construction
- Capacity up to 1,100 lbs (push/pull)
- Overload capacity 200% of F.S.
- USB (virtual COM port), RS-232C, Digimatic and Analog outputs
- lbf, kgf, and N units are selectable

- 1,000 data memory for recall or download
- External switch display hold and clear
- Internal Ni-MH batteries or AC adapter
- Real time and peak mode (selectable)
- Overload alarm and output signal
- Kit includes, full set of attachments, ZT Logger data acquisition software, USB cable, AC adapter/charger, calibration cert traceable to NIST and carrying case.

ZTA Additional features
- Display force and displacement data with Imada FA test stand
- Export gauge memory or save continuous data to USB flash drives

EL Display (electro luminescent)

Visible in dark locations with selectable formats: Single-Line with basic data or Multi-Line with selectable data, Multi-Line is shown

Program Menus in Eight Languages

Program the gauge using plain language menus.

| Setup Menu |
| Date Format |
| Language |
| Units |

2,000 data/sec actual data not just peak

Capture 2,000 data/sec and observe force changes in fractions of a mS.

CE

ZTS/ZTA Kit

Easy-to-use menus make programming simple in eight languages. Select units, reverse display, set high/low setpoints, and all other functions in plain language.

Electro luminescent EL display shows force value, unit, and peak, and can be configured with additional user-selectable data including memory data, +NG count, high/low setpoints, 1st and 2nd peaks, displacement value (using Imada test stand with FA option), etc.
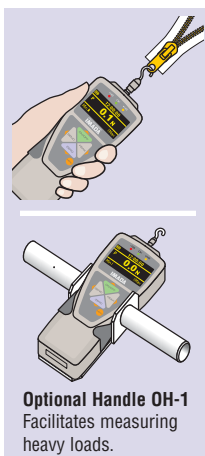
Color-coded LED indicators alert the user to Go/NoGo conditions. Orange lights for less than low setpoint, green lights between high and low, and red for over the high.

Process and transmit 2,000 actual data per second, not just the peak from a high sampling rate. Optional Force Recorder data acquisition software is designed to process up to 2,000 data per second.

Display force and displacement data on ZTA gauges with Imada test stands equipped with FA option.

Save data to USB flash drives. Export peak data or capture continuous data at 100 data/second to flash drives with ZTA force gauges.

ZT Logger data acquisition software downloads data from the gauge memory or captures a continuous stream of data at 10 data/second. Zero the gauge or capture data while at the computer. All gauge programming can be set and saved from the software.

Optional Handle OH-1
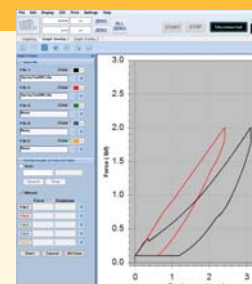Facilitates measuring heavy loads.

ZTS/ZTA Specifications

Accuracy	± 0.2% ± 1 LSD
Selectable Units	lbf (ozf), N, kgf (gf)
Overload Capacity	200% of F.S. (Overload indicator flashes beyond 110% of F.S.)
Power	Rechargeable Ni-MH battery pack or AC adapter
Battery Indicator	Indicates three charge states high, med and low
Memory	Non-volatile, recall up to 1,000 data
Setpoints	Programmable high/low setpoints w/ color-coded LEDs & output signal
Outputs	USB (virtual COM port), RS-232C, Digimatic and ± 2 VDC analog output
Operating Temp.	32° to 100°F (0° to 40°C)

ZTS/ZTA Ranges (Resolution)   Accuracy: ±0.2% F.S. ±1 LSD

Model	Capacity (Resolution)			
	Ounces (ozf)	**Pounds (lbf)**	**Kilograms (kgf)**	**Newtons**
ZTS/ZTA-0.4	7.00 (0.01)	—	200.0 (0.1 gf)	2.000 (0.001)
ZTS/ZTA-1	18.00 (0.01)	—	500.0 (0.1 gf)	5.000 (0.001)
ZTS/ZTA-4	—	4.400 (0.001)	2.000 (0.001)	20.00 (0.01)
ZTS/ZTA-11	—	11.00 (0.01)	5.000 (0.001)	50.00 (0.01)
ZTS/ZTA-44	—	44.00 (0.01)	20.00 (0.01)	200.0 (0.1)
ZTS/ZTA-110	—	110.0 (0.1)	50.00 (0.01)	500.0 (0.1)
ZTS/ZTA-220	—	220.0 (0.1)	100.0 (0.1)	1000 (1)
ZTS/ZTA-550	—	550.0 (0.1)	250.0 (0.1)	2500 (1)
ZTS/ZTA-1100	—	1100 (1)	500.0 (0.1)	5000 (1)

Optional Force Recorders (software)
- Capture 2,000 data/second
- Control gauge operation
- Program and save gauge functions
- Force vs. displacement (Pro version only)
- Zoom in to examine graph details
- Overlay multiple graphs
- Statistics: Min, Max, Avg, Std. Dev.

Specifications subject to change without notice.