ABQ Industrial LLC
Web: www.abqindustrial.net | Email: info@abqindustrial.net
Toll-Free: +1 (888) 275-5772

TECHNICAL DATA SHEET • FORCE & TORQUE MEASUREMENT EQUIPMENT



Series: Imada ZTA-LM / ZTA-LMA

Imada ZTA-LM Series Force Gauge with Button Sensor

Advanced Digital Compression Force Gauge with Remote Button Load Cell

The **Imada ZTA-LM Series Digital Force Gauge** pairs a high-speed digital force indicator with a compact remote button load cell sensor on a 6-foot cable, making it ideal for compression force measurements in confined, tight-clearance, or hard-to-reach spaces up to 4,400 lbf (20.00 kN).

Built with an ergonomic, heavy-duty metal housing and high-contrast Electroluminescent Display (ELD), the ZTA-LM processes and transmits 2,000 data points per second, offers eight-language programming menus, and supports direct data export to USB flash drives.

TECHNICAL SPECIFICATIONS & DEVICE DETAILS

Manufacturer: Imada	**Model Series:** ZTA-LM / ZTA-LMA (10 Available Ranges)
Measurement Mode: Compression Only (Remote Button Sensor)	**Accuracy:** ±0.5% F.S., ±1 LSD
Data Processing Rate: Processes and transmits 2,000 data/sec	**Selectable Units:** lbf (ozf), kgf (gf), or Newtons (kN)
Internal Memory: Non-volatile, recall up to 1,000 data points	**Overload & Power:** 200% F.S. | Rechargeable Ni-MH / AC Adapter

GAUGE HIGHLIGHTS & KEY FEATURES

Engineered for precision compression testing in restricted mechanical assemblies and automated quality control stations, the ZTA-LM series combines compact load-cell geometry with versatile digital connectivity.

- **High-Visibility ELD & Multi-Language Menus:** Bright Electroluminescent Display (ELD) ensures clear readability in low-light environments, with easy-to-use programming menus in eight languages (English, Spanish, French, Chinese, German, Italian, Korean, and Japanese).
- **ZTA Exclusive Capabilities:** Export internal gauge memory or save continuous test data directly to USB flash drives, and display synchronized force and displacement data when paired with an Imada FA test stand.

- **Go/No-Go Testing & Versatile Outputs:** Programmable High/Low setpoints with color-coded LED indicators, overload alarm/output signal, external switch display hold/clear, selectable real-time or peak modes, and USB (virtual COM port), RS-232C, Digimatic, and ±2 VDC analog outputs.

ITEMIZED CONTENTS & ORDERING INFORMATION

COMPLETE KIT INVENTORY (IMADA ZTA-LM SERIES)

Component Name	Primary Function / Application	Included
Imada ZTA-LM Force Gauge	Advanced ELD digital force gauge indicator with 1,000-point memory and multi-output interface.	Standard
Remote Button Sensor (6' Cable)	Compact LM compression-only button load cell with 6-foot cable for tight spaces.	Standard
ZT Logger Software & USB Cable	PC data acquisition software and USB cable for downloading memory or streaming test data.	Standard
AC Adapter / Charger	Powers the gauge or recharges the internal Ni-MH battery pack (3-level charge indicator).	Standard
NIST-Traceable Calibration Cert.	Factory calibration certificate traceable to NIST (ISO-17025 accredited option available).	Standard
Carrying Case	Protective carrying case for secure transport and organized storage of the gauge and sensor.	Standard

ORDERING & PRODUCT OPTIONS

Model Number	Capacity	Resolution
ZTA-LM-2	2.200 lbf | 1.000 kgf | 10.00 N	0.001 lbf | 0.001 kgf | 0.01 N
ZTA-LM-4	4.400 lbf | 2.000 kgf | 20.00 N	0.001 lbf | 0.001 kgf | 0.01 N
ZTA-LM-11	11.00 lbf | 5.000 kgf | 50.00 N	0.01 lbf | 0.001 kgf | 0.01 N
ZTA-LM-44	44.00 lbf | 20.00 kgf | 200.0 N	0.01 lbf | 0.01 kgf | 0.1 N
ZTA-LM-110	110.0 lbf | 50.00 kgf | 500.0 N	0.1 lbf | 0.01 kgf | 0.1 N
ZTA-LMA-220	220.0 lbf | 100.0 kgf | 1000 N	0.1 lbf | 0.1 kgf | 1 N
ZTA-LMA-550	550.0 lbf | 250.0 kgf | 2500 N	0.1 lbf | 0.1 kgf | 1 N
ZTA-LMA-1100	1100 lbf | 500.0 kgf | 5000 N	1 lbf | 0.1 kgf | 1 N
ZTA-LMA-2200	2200 lbf | 1000 kgf | 10.00 kN	1 lbf | 1 kgf | 0.01 kN
ZTA-LMA-4400	4400 lbf | 2000 kgf | 20.00 kN	1 lbf | 1 kgf | 0.01 kN



Ready to Order or Request a Quote?
Contact ABQ Industrial sales engineers for pricing, calibration certificates, and delivery options.

Email: info@abqindustrial.net
Phone: +1 (888) 275-5772