

Series ZPS-LM

USB Output, Digital Force Gauge with Button Sensor (for compression only)

- Process 1,000 data/second not just the peak
- USB, RS-232C, and Analog outputs
- Programmable high/low setpoints with color-coded LED indicators and output signal for go/no go testing
- 1,000 Data memory for computer download
- External switch display hold and clear
- lbf, kgf, and N units are selectable
- Runs on internal NI-MH batteries or AC adapter
- Ergonomic design with non-slip rubber grip, heavy duty metal construction

- Capacity up to 4400 lbf
- Overload capacity 200% of F.S.
- Real time and peak mode (selectable)
- Overload alarm and output signal
- Low battery indicator
- Reversible display
- ZPS kits include 6' cable, AC adapter/ charger, carrying case, ZP Logger software, USB driver and USB cable.



For
compression
only

USB Output - High Performance

ZPS digital force gauges are capable of processing 1,000 data/sec, so force profiles can be analyzed for more than just the peak. Collect peak data on your computer with the USB cable and ZP Logger (included) or 1,000 data/second with ZP Recorder (optional).

Main Features

The ZPS-LM are high performance digital force gauges featuring a button sensor that is ideal for confined or difficult to reach spaces. LM sensors must be placed on flat surfaces and measure compression only. A standard six foot cable connects the gauge to the sensor. ZPS gauges have programmable high/low setpoints for go/no-go testing with corresponding color coded LED indicators.

Use real time mode to display load transients, or peak mode to capture the peak force achieved during a test. Selectable lbf, kgf, or Newtons measuring units. Store up to 1,000 values in memory and download to your computer using USB or RS-232C output. ZPS gauges are sold in kits which include a hard plastic carrying case, AC adapter/charger, 6' cable, and extension rod), NI-MH rechargeable batteries, USB Driver and ZP Logger, and USB cable.

ZP Logger Software (included)

ZP Logger is a USB software utility that logs force values by pressing the Send button on the gauge, from either Peak or Real time modes. ZP Logger also downloads all values previously stored in gauge memory and saves in CSV format.

ZP Recorder Software (optional)

ZP Recorder is force data analysis software designed to interface with Imada ZP Series (USB) force gauges. ZP Recorder records and processes 1,000 data per second (not just the peak) and generates a graph with statistics. Zoom into any part of the graph to see individual data points at intervals of 1mS. Mouse over data points to display their force value.

Further analysis can be done on the entire range or by selecting part of the graph to detect the first peak or generate statistics within that time interval. Compare and align multiple graphs. Save graphs or export data to CSV format.

ZPS-LM Ranges (Resolution) Accuracy: $\pm 0.5\%$ F.S. ± 1 LSD

| Model | Capacity (Resolution) | | | | H | DØ |
|-------------|-----------------------|-----------------------|-----------------------|--|--------|---------|
| | Pounds (lbf) | Kilograms (kgf) | Newtons (N) | | | |
| ZPS-LM-0.4 | 7.00 ozf (0.01 ozf) | 200.0 gf (0.1 gf) | 2,000 N (0.001 N) | | .16 in | .47 in |
| ZPS-LM-1 | 18.00 ozf (0.01 ozf) | 500.0 gf (0.1 gf) | 5,000 N (0.001 N) | | .16 in | .47 in |
| ZPS-LM-4 | 4.400 lbf (0.001 lbf) | 2,000 kgf (0.001 kgf) | 20,000 N (0.01 N) | | .16 in | .47 in |
| ZPS-LM-11 | 11.00 lbf (0.01 lbf) | 5,000 kgf (0.001 kgf) | 50,000 N (0.01 N) | | .16 in | .47 in |
| ZPS-LM-44 | 44.00 lbf (0.01 lbf) | 20,000 kgf (0.01 kgf) | 200,000 N (0.1 N) | | .40 in | 1.24 in |
| ZPS-LM-110 | 110.0 lbf (0.1 lbf) | 50,000 kgf (0.01 kgf) | 500,000 N (0.1 N) | | .40 in | 1.24 in |
| ZPS-LM-220 | 220.0 lbf (0.1 lbf) | 100,000 kgf (0.1 kgf) | 1,000,000 N (1N) | | .40 in | 1.24 in |
| ZPS-LM-440 | 440.0 lbf (0.1 lbf) | 200,000 kgf (0.1 kgf) | 2,000,000 N (1N) | | .40 in | 1.24 in |
| ZPS-LM-1100 | 1100 lbf (1 lbf) | 500,000 kgf (0.1 kgf) | 5,000,000 N (1N) | | .40 in | 1.24 in |
| ZPS-LM-2200 | 2200 lbf (1 lbf) | 1,000,000 kgf (1 kgf) | 10,000,000 N (0.01KN) | | .40 in | 1.24 in |
| ZPS-LM-4400 | 4400 lbf (1 lbf) | 2,000,000 kgf (1 kgf) | 20,000,000 N (0.01KN) | | .62 in | 1.49 in |

All dimensions in inches; Button sensors must be placed on flat surfaces; Call for other types of sensors; Specifications subject to change without notice.

