

# Series Z2 Programmable, High-Performance, Digital, Push/Pull Force Gauge with Outputs

**FORCE CONTROL**  
with MX Series  
Test Stands

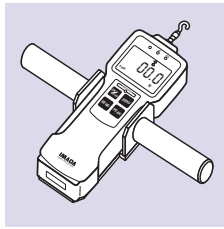
- Programmable high/low setpoints with color-coded LED indicators and output signal for quick go/no go testing
- 1,000 Data memory for computer download
- External switch display hold and clear
- lbf, kgf, and N units are selectable
- RS-232C, Digimatic and Analog outputs
- Runs on internal NI-MH batteries or AC adapter
- Ergonomic design with non-slip rubber grip, heavy duty metal construction
- Capacity up to 220 lbs (push/pull)
- Overload capacity 200% of F.S.
- Real time and peak mode (selectable)
- Overload alarm and output signal
- Low battery indicator
- Reversible display
- Full set of accessories, AC adapter/charger and carrying case. Z2 gauges are sold in kit form.

Ergonomic Design with Non-Slip Rubber Grip



Z2 Kit

The Z2 are high performance, digital force gauges which offer programmable high/low setpoints for go/no-go testing. ORANGE lights up for measurements less than Low setpoint, GREEN for between High and Low setpoint, and RED for over High setpoint.



Optional Handle OH-1  
Fits Z2 gauges to facilitate measuring heavy loads.

Store up to 1,000 values in memory, which can be transmitted using the Digimatic or serial output ports. Use the real time mode to display load transients, or the peak mode to capture the peak force achieved during a test. Selectable measuring units of lbf, kgf, or Newtons.

All Z2 gauges are sold in kits which include the gauge, hard plastic carrying case, AC adapter/charger, and attachments (flat head, conical, chisel, notched, small hook, large hook, Y-fork, and extension rod). Built-in NI-MH rechargeable batteries.

### Data Acquisition Software (optional)

Capture and analyze real-time data from any Imada gauge with an RS-232C port directly into any Windows program. Log and chart measurements as well as statistical information. Control the gauge from your computer.

### Data Input Button (optional)

DB-1 is a simple, compact, one channel interface that enables the user to send measurement data to a PC running Imada data acquisition software or other software. The data input button simplifies peak measuring tests because it 'zeros' the gauge after sending the data to the computer eliminating the need to reset manually for each test.

### Z2 Specifications

Accuracy	± 0.2% ± 1 LSD
Selectable Units	Pounds, Kilograms or Newtons
Overload Capacity	200% of F.S. (Overload indicator flashes beyond 108% of F.S.)
Power	Rechargeable NI-MH battery pack or AC adapter
Battery Indicator	Display flashes BAT when battery is low
Memory	Non-volatile, recall up to 1,000 loads
Setpoints	Programmable high/low setpoints with color-coded indicators and output signal
Outputs	RS-232C, Digimatic and ± 2 VDC analog output
Operating Temp.	32° to 100°F (0° to 40°C)

### Z2 Ranges (Resolution) Accuracy: ±0.2% F.S. ±1 LSD

Model	Capacity (Resolution)			
	Ounces (ozf)	Pounds (lbf)	Kilograms (kgf)	Newtons
Z2-0.4	7.00 ozf (0.01 ozf)	-----	200.0 gf (0.1 gf)	2.000 N (0.001 N)
Z2-1	18.00 ozf (0.01 ozf)	-----	500.0 gf (0.1 gf)	5.000 N (0.001 N)
Z2-4	-----	4.400 lbf (0.001 lbf)	2.000 kgf (0.001 kgf)	20.00 N (0.01 N)
Z2-11	-----	11.00 lbf (0.01 lbf)	5.000 kgf (0.001 kgf)	50.00 N (0.01 N)
Z2-44	-----	44.00 lbf (0.01 lbf)	20.00 kgf (0.01 kgf)	200.0 N (0.1 N)
Z2-110	-----	110.0 lbf (0.1 lbf)	50.00 kgf (0.01 kgf)	500.0 N (0.1 N)
Z2-220	-----	220.0 lbf (0.1 lbf)	100.0 kgf (0.1 kgf)	1000 N (1 N)

Specifications subject to change without notice.

