



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

**IMADA, Inc.®**

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# Series DS2

## Easy-to-use digital gauge with large easy-to-read display

- Ergonomic, durable, heavy-duty metal construction
- Push-button selectable lbf, kgf, and Newton units
- RS-232C, Digimatic and analog outputs
- Programmable High/Low setpoints with LCD indicators
- Overload capacity 200% F.S.
- Overload alarm, display flashes at overload limit
- Low battery icon
- Runs on internal NI-MH batteries or AC adapter
- Selectable real time or peak mode operation
- Push-button tare function
- Reversible display
- Set of six attachments, AC charger/adapter and carrying case

DS2 digital force gauges feature a large, easy-to-read LCD display and simple push-button operation. An ergonomic metal housing protects the highly accurate loadcell and electronics in tough industrial environments.

When measuring, units of measure and a tension or compression icon are displayed. A battery icon indicates the NI-MH batteries are low. If an overload occurs the display will flash to warn you.

If desired, you can program high/low setpoints to enable Go/NoGo testing using the LCD indicators. Standard outputs (RS-232C, Digimatic, and  $\pm 1$ VDC analog) enable you to acquire data for permanent record.

Choose a range or ranges that best suit your application. All DS2 gauges are sold in a complete kit with gauge, hard plastic carrying case, a set of six measuring attachments and AC adapter/charger. All DS2 gauges can run on the internal NI-MH batteries or the AC adapter/charger.

### SW-1 Data Acquisition Software (optional)

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

### DB-1 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 SW-1, 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.



### Optional Handle OH-1

Fits DS2 gauges to facilitate the measurement of heavy loads.



All DS2 gauges are sold in kit form.



### DS2 Specifications

<b>Accuracy</b>	$\pm 0.2\%$ F.S., $\pm 1$ LSD
<b>Selectable Units</b>	lbf(ozf), kgf(gf) or Newtons
<b>Overload Capacity</b>	200% of F.S. (Overload indicator flashes beyond 110% of F.S.)
<b>Data processing speed</b>	1,000 data/second (30 data/second rate selectable)
<b>Display Update</b>	10 times/second
<b>Power</b>	Rechargeable NI-MH battery pack or AC adapter
<b>Battery Indicator</b>	Display flashes battery icon when battery is low
<b>CPU</b>	8-bit CMOS
<b>Setpoints</b>	Programmable high/low setpoints with LCD indicators
<b>Outputs</b>	RS-232C, Digimatic and $\pm 1$ VDC analog output
<b>Operating Temp.</b>	32° to 100°F (0° to 40°C)

### DS2 Ranges (Resolution) Accuracy: $\pm 0.2\%$ F.S. $\pm 1$ LSD

Model	Capacity (Resolution)			
	Ounces (ozf)	Pounds (lbf)	Kilograms (kgf)	Newtons
DS2-0.4	7.00 (0.01 ozf)	—	200.0 (0.1 gf)	2.000 (0.001 N)
DS2-1	18.00 (0.01 ozf)	—	500.0 (0.1 gf)	5.000 (0.001 N)
DS2-4	—	4.400 (0.001 lbf)	2.000 (0.001 kgf)	20.00 (0.01 N)
DS2-11	—	11.00 (0.01 lbf)	5.000 (0.001 kgf)	50.00 (0.01 N)
DS2-44	—	44.00 (0.01 lbf)	20.00 (0.01 kgf)	200.0 (0.1 N)
DS2-110	—	110.0 (0.1 lbf)	50.00 (0.01 kgf)	500.0 (0.1 N)
DS2-220	—	220.0 (0.1 lbf)	100.0 (0.1 kgf)	1000 (1 N)

Specifications subject to change without notice.

