

IMADA

Series DPS

Digital Force Gauge with Outputs

- Best value digital force gauge with capacity up to 220 lbs (push/pull)
- RS-232C, Digimatic and analog outputs
- Ergonomic, heavy-duty metal construction
- lb, kg, and Newton units are push-button selectable
- Overload alarm, low battery display indicator
- Outstanding display update of 20 times/second
- Runs on internal NiCad batteries or AC adapter
- Real time and peak mode (selectable)
- Tare function
- Full set of accessories, AC charger/adapter and carrying case
- Overload capacity 200% F.S.



The DPS digital force gauges represent the latest technology in an affordable, feature packed instrument. The rugged metal housing is ergonomically designed to fit your hand, yet durable enough to withstand harsh industrial environments. The easy to read display tells you at a glance the unit of measurement (lb, kg, or Newtons), tension or compression, if you are in Peak Mode, and whether the built-in NiCad batteries are low. The standard outputs (RS-232C, Digimatic, and ± 1 VDC analog) allow you to capture data for permanent record. Choose the range or ranges that best suit your needs. All DPS gauges are sold complete in kit form with gauge, hard plastic carrying case, full set of measuring adapters, extension rod, and AC adapter/charger. All DPS gauges can be run on the internal NiCad batteries or the AC adapter/charger.

Note: Use an "R" suffix for reverse display units (for use on vertical test stand)

DPS Specifications

Accuracy	$\pm 0.2\%$ ± 1 LSD
Selectable Units	Pounds, Kilograms or Newtons
Overload Capacity	200% of F.S. Display flashes beyond 105% of F.S.
Display Update	20 times/second
Sampling Rate	1,000 times/second
Power	Rechargeable NiCad battery pack or AC adapter
Low Battery Indicator	Display flashes BAT when battery is low
CPU	8-bit C-MOS
A/D Converter	13-bit digital sigma system
Outputs	RS-232, Mitutoyo Digimatic and ± 1 VDC analog output
Operating Temperature	32° to 100°F (0° to 40°C)



DPS Ranges (Resolution)

Model	Capacity (Resolution)		
	Pounds Ounces	Kilograms Grams	Newtons
DPS-0.5	8.819 oz (0.001 oz)	250.0 g (0.1 g)	2.452 N (0.001 N)
DPS-1	17.64 oz (0.01 oz)	500.0 g (0.1 g)	4.903 N (0.001 N)
DPS-4	4.409 lb (0.001 lb)	2.000 kg (0.001 kg)	19.61 N (0.01 N)
DPS-11	11.02 lb (0.01 lb)	5.000 kg (0.001 kg)	49.03 N (0.01 N)
DPS-44	44.09 lb (0.01 lb)	20.00 kg (0.01 kg)	196.1 N (0.1 N)
DPS-110	110.2 lb (0.1 lb)	50.00 kg (0.01 kg)	490.3 N (0.1 N)
DPS-220	220.5 lb (0.1 lb)	100.0 kg (0.1 kg)	980 N (1 N)

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standard
display
unit

reverse
display
unit

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