



Precision Instruments for Quality Control

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DST Digital Force Gauge

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The DST digital force gauges are simple-to-use basic gauges featuring user-friendly menu operation. Selections including unit and measuring mode can be locked to prevent accidental changes.

The large backlit LCD display can be configured in basic format to show value, unit and measuring mode or multi-line format to display peak and real time values simultaneously. Additional features include reversible display and high/low setpoints with OK indicator for Go/No Go testing.

The gauges have a 30,000/sec sampling rate. Collect the data via USB or RS-232 connections with the Force Logger or SW-1X software (both optional).

DST gauges are powered by rechargeable Ni-MH batteries or the AC adapter/charger. The batteries are user replaceable and can also be charged using USB ports or USB portable chargers.



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Features

Video

Ranges

Optional Accessories

Standard Attachments

Special Attachments

Features

- NIST Traceable Calibration Certificate
ISO-17025 certificate option available
- Backlit LCD display with user-friendly menus
- Setting security lock prevents accidental changes
- Ergonomic, durable, heavy-duty metal construction
- 30,000/sec sampling rate



[Dimensions](#)[Complete Kit](#)[Specifications](#)[Related Products](#)[Buy Now](#)

- Selectable real time or peak mode operation
- Programmable High/Low setpoints with OK indicator
- USB and RS-232C output
- Push-button tare function
- Overload capacity 200% F.S.; display flashes at overload limit
- Runs on internal Ni-MH batteries (user replaceable) or AC adapter; charge with USB port or portable charger
- 2-Year Warranty

Video

DST Digital Force Gauge



Ranges

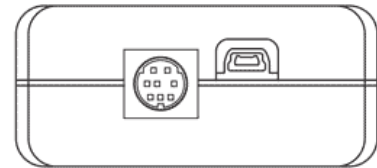
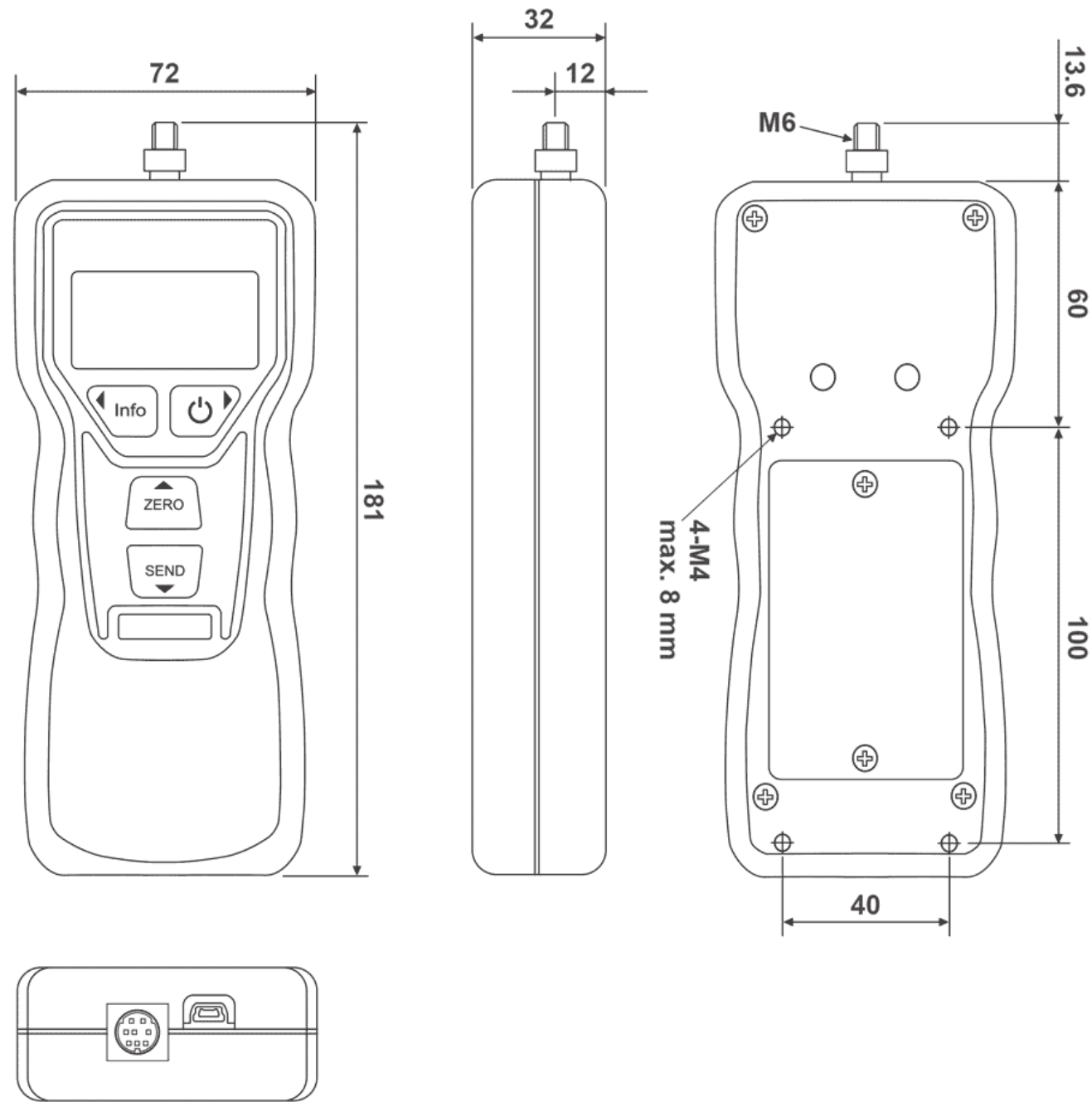
Model	Capacity	Resolution
DST-0.4	7.000 ozf 200.0 gf 2.000 N	0.001 ozf 0.1 gf 0.001 N
DST-1	18.00 ozf 500.0 gf 5.000 N	0.01 ozf 0.1 gf 0.001 N
DST-4	4.400 lbf 2.000 kgf 20.00 N	0.001 lbf 0.001 kgf 0.01 N
DST-11	11.00 lbf 5.000 kgf 50.00 N	0.01 lbf 0.001 kgf 0.01 N
DST-44	44.00 lbf 20.00 kgf 200.0 N	0.01 lbf 0.01 kgf 0.1 N
DST-110	110.0 lbf 50.00 kgf 500.0 N	0.1 lbf 0.01 kgf 0.1 N
DST-220	220.0 lbf 100.0 kgf 1000 N	0.1 lbf 0.1 kgf 1 N

Optional Accessories

Force Logger (optional)

Available to users who need to collect peak data. Please inquire.

SW-1 Data Acquisition Software (optional)



dimensions in mm

Complete Kit

All DTS gauges are sold in a complete kit with gauge, hard plastic carrying case, a set of six standard attachments, NIST Traceable Calibration Cert, Instruction Manual and AC adapter/charger.



Specifications

Measuring Principle	Bidirectional force sensor with strain gauge
Accuracy	$\pm 0.2\%$ F.S., ± 1 LSD
Sampling Rate	30,000/second
A/D Converter	16 bit
Setpoints	Programmable high/low setpoints with OK indicator
Display	LCD, 4 digits
Selectable Units	N, gf (kgf), lbf (ozf)
Display Update Rate	8 times/sec.
Overload Alarm	200 % full scale Alarm signal at 90 % full scale Alarm signal and flashing display at 110 % full scale
Outputs	USB, RS-232C

Battery Life	Approx. 30 hours backlight off Approx. 14 hours backlight on 4.5 hours required for full charge
Battery Indicator	Battery icon displays three levels of charge
Power Supply	Rechargeable NiMH batteries (approx. 30 h continuous use without background light, approx. 14 h with background light, approx. 4.5 h charging time). Charging occurs with AC adapter or by connection via USB cable to a PC or a mobile battery.
Housing Material	Die-cast aluminium
Mounting threads for test stand	4 x M4, Depth 8 mm
Plug Gauge	M6 Male Thread
Operating Temperature	32° to 100°F (0° to 40°C)
Air Humidity	20 – 80 % RH
Dimensions	181 x 72 x 32 mm (LxWxH)
Weight, net (gross)	Approx. 460 g (approx. 1300 g)
Warranty	2 Years

Related Products

Buy Now

	Item	Description	Price
 Add	DST-0.4	Digital Force Gauge, 7 oz / 200 g / 2 N Capacity - DST-0.4A	\$595.00