

Premium Digital Force Gauges

Fastest peak sampling rate of 7000 Hz in the industry

These force gauges are designed for tension and compression force testing in numerous applications across virtually every industry. The unique averaging mode addresses the need to record the average force over time, useful in applications such as peel testing, while the external trigger mode makes switch activation testing simple and accurate.

The simple menu navigation allows for quick access to many features and configurable parameters. Data can be transferred to a PC or other data collector via USB, RS-232, Mitutoyo (Digimatic), or analog outputs. The ergonomic, reversible aluminum design allows for handheld use or test stand mounting for more sophisticated testing requirements. Gauges are directly compatible with all Mark-10 equipment, including the ESM300 series test stands.



25310-63

- USB, RS-232, Mitutoyo, and analog outputs
- Large backlit graphic display
- 1000-point data memory with statistics and outputs
- Live load bar graph with set point markers
- Programmable set points, with alarms and outputs
- Peak readings and set points always displayed
- Averaging mode—calculates average readings over time
- External trigger mode—for switch contact testing or remotely stopping display update
- Automatic data output via USB/RS-232
- 5 selectable units of measurement
- Configurable audio alarms and key tones
- Password protection, configurable for individual keys and calibration

SPECIFICATIONS	
Accuracy	±0.1% full-scale
Display	5-digit backlit LCD with graphic display
Sampling rate	7000 Hz
Overload	150% of capacity
Output	USB, RS-232, Mitutoyo, and analog
Dimensions (W x H x D)	2½" x 6" x 1½" (63 x 152 x 38 mm)
Power	One 8.4 V rechargeable battery or AC adapter
Battery life	24 hours without backlight, 6 hours with backlight

What's included: USB cable with driver, hook, flat, v-groove, chisel, cone, extension rod, cushioned carrying case, one 8.4 V rechargeable battery, AC adapter, and a calibration document supplied by the manufacturer.

Catalog No.	Model No.	Capacity	Resolution
TS-25310-53	M5-012	0.12 lb / 50 g / 0.5 N	0.00002 lb / 0.01 g / 0.0001 N
TS-25310-55	M5-025	0.25 lb / 100 g / 1 N	0.00005 lb / 0.02 g / 0.0002 N
TS-25310-57	M5-05	0.5 lb / 250 g / 2.5 N	0.0001 lb / 0.05 g / 0.0005 N
TS-25310-58	M5-2	2 lb / 1 kg / 10 N	0.0005 lb / 0.0002 kg / 0.002 N
TS-25310-59	M5-5	5 lb / 2.5 kg / 25 N	0.001 lb / 0.0005 kg / 0.005 N
TS-25310-63	M5-10	10 lb / 5 kg / 50 N	0.002 lb / 0.001 kg / 0.01 N
TS-25310-65	M5-20	20 lb / 10 kg / 100 N	0.005 lb / 0.002 kg / 0.02 N
TS-25310-67	M5-50	50 lb / 25 kg / 250 N	0.01 lb / 0.005 kg / 0.05 N
TS-25310-69	M5-100	100 lb / 50 kg / 500 N	0.02 lb / 0.01 kg / 0.1 N
TS-25310-74	M5-200	200 lb / 100 kg / 1000 N	0.05 lb / 0.02 kg / 0.2 N
TS-25310-75	M5-500	500 lb / 250 kg / 2500 N	0.1 lb / 0.05 kg / 0.5 N
Accessories			
TS-17090-16	—	NIST-traceable recalibration with data for gauges up to 250 lb	
TS-17111-37	—	NIST-traceable recalibration with data for gauges up to 500 lb	