

Universal Force and Torque Indicator and Sensors

Test up to 10,000 lb of force and 5000 lb in. of torque with interchangeable sensors

This force/torque indicator contains all the features of the Series 5 force gauges (see page 465), coupled with the compatibility of Mark-10's Plug & Test™ family of interchangeable force and torque sensors. All calibration and configuration data is saved within the sensor's smart connector, not the indicator, allowing for true interchangeability. The included software allows you to further analyze measurement results and is ideal for report generation requirements.

- Interchangeable force and torque sensors through Plug & Test™ technology
- 1000-point data memory with statistics (min, max, mean, standard deviation) and outputs
- 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
- Sensor password protection, for preventing use of an unauthorized sensor
- Password protection for individual keys and calibration
- Configurable audio alarms and key tones
- USB, RS-232, Mitutoyo, and analog outputs



25312-00

What's included: MESUR™ Lite software, MESUR™gauge DEMO software, USB cable, USB driver, carrying case, universal voltage AC adapter, battery, quick-start guide, user's guide, and calibration documents supplied by the manufacturer.

SPECIFICATIONS	
Accuracy	±0.1% of full scale ±1 digit + sensor
Sampling rate	7000 Hz
Analog output	±1 VDC, ±0.25% of full scale
Set point outputs	Three open drain lines
Display	Alpha-numeric backlit LCD with graphic display
Dimensions (W x H x D)	2½" x 5⅞" x 1⅛" (63.5 x 149.3 x 33 mm)
Power	Rechargeable battery or 110 VAC adapter

A. Inline Tension/Compression Sensors

- ±0.15% sensor accuracy
- Tension/compression
- Inline
- NIST-traceable calibration with data



25312-01

Catalog No.	Model No.	Capacity x resolution
TS-25312-01	MR03-025	0.25 x 0.0001 lb, 100 x 0.05 g, 1 x 0.0005 N
TS-25312-02	MR03-05	0.5 x 0.0002 lb, 250 x 0.1 g, 2.5 x 0.001 N
TS-25312-03	MR03-2	2 x 0.001 lb, 1 x 0.0005 kg, 10 x 0.005 N
TS-25312-04	MR03-5	5 x 0.002 lb, 2.5 x 0.001 kg, 25 x 0.01 N
TS-25312-05	MR03-10	10 x 0.005 lb, 5 x 0.002 kg, 50 x 0.02 N
TS-25312-06	MR03-20	20 x 0.01 lb, 10 x 0.005 kg, 100 x 0.05 N
TS-25312-07	MR03-50	50 x 0.02 lb, 25 x 0.01 kg, 250 x 0.1 N
TS-25312-08	MR03-100	100 x 0.05 lb, 50 x 0.02 kg, 500 x 0.2 N

B. Static Torque Sensors

- ±0.35% sensor accuracy
- Torque tool calibrator
- Bidirectional
- NIST-traceable calibration with data



25312-09

Catalog No.	Model No.	Capacity x resolution
TS-25312-09	MR52-10Z	10 x 0.005 oz/in, 700 x 0.5 g-cm, 7 x 0.005 N-cm
TS-25312-10	MR52-20Z	20 x 0.01 oz/in, 1400 x 1 g-cm, 14 x 0.01 N-cm
TS-25312-11	MR52-50Z	50 x 0.02 oz/in, 3600 x 2 g-cm, 35 x 0.02 N-cm
TS-25312-12	MR52-12	12 x 0.005 lb/in, 192 x 0.1 oz/in, 135 x 0.1 N-cm
TS-25312-13	MR52-50	50 x 0.02 lb/in, 800 x 0.5 oz/in, 570 x 0.5 N-cm
TS-25312-14	MR52-100	100 x 0.05 lb/in, 1600 x 1 oz/in, 1150 x 0.5 N-cm
TS-59856-84	AC1006	Mounting kit, table top
TS-59856-85	AC1014	¾" Jacobs chuck