

MODEL 7i – PROFESSIONAL FORCE/TORQUE INDICATOR

The 7i professional digital force/torque indicator is designed to work with a wide range of remote force and torque sensors. Exclusive Plug & Test™ technology allows all calibration and configuration data to be saved within the sensor's smart connector, not the indicator, allowing for true interchangeability. In addition to the 5i indicator features, the 7i includes high speed continuous data capture and storage, with memory for up to 5,000 readings, at an acquisition rate of up to 14,000 Hz. The 7i also features programmable footswitch sequencing, break detection, and 1st / 2nd peak detection. Coefficient of friction unit of measurement and a user-defined unit of measurement add flexibility for specialized applications. For productivity enhancement, the indicator also features automatic data output, data storage, and zeroing functions upon the completion of break detection, averaging, external trigger, and 1st / 2nd peak detection. The included MESUR™ Lite data acquisition software tabulates continuous or single point data. Data saved in the indicator's memory can also be downloaded in bulk. One-click export to Excel easily allows for further data manipulation.

- **HIGH-SPEED SAMPLING RATE (14,000 HZ)**
- **CONTINUOUS DATA CAPTURE AND STORAGE OF UP TO 5,000 DATA POINTS**
- **DATA DOWNLOADABLE TO A PC**
- **AUTOMATIC OUTPUT / DATA STORAGE / ZEROING AFTER TEST COMPLETION**
- **SAMPLE BREAK DETECTION WITH AUTO FUNCTIONS**
- **EXTERNAL TRIGGER MODE FOR REMOTE**
- **FOOTSWITCH COMMAND STRING**
- **1ST / 2ND PEAK DETECTION**
- **LARGE, EASY-TO-READ LCD SCREEN**
- **SIX DIFFERENT UNITS OF MEASUREMENT AND ONE USER-DEFINED UNIT**
- **AVERAGING MODE**
- **SENSOR PASSWORD PROTECTION**

SPECIFICATIONS

ACCURACY:	±0.1% of full scale + sensor
SAMPLE RATE:	14,000 Hz
MEASUREMENT UNITS:	5 different measurement units and 1 user-defined unit
POWER:	AC or rechargeable battery
BATTERY LIFE:	7 – 12 hours continuous use
OUTPUTS:	USB/RS-232, Mitutoyo (Digimatic), Analog (±1 VDC, ±0.2% of full scale at capacity), 3 general purpose open drain outputs and one input, 3 open drain set points
CONFIGURABLE SETTINGS:	Digital filters, outputs, automatic output (via USB/RS-232), automatic shutoff, default settings, averaging mode, external trigger, passwords, keytones, audio alarms, backlight, calibration
WEIGHT:	0.7 lb (0.3 kg)
WARRANTY:	3 years
INCLUDED:	Carrying case universal AC adapter, battery, quick start guide, USB cable, software, certificate of conformance

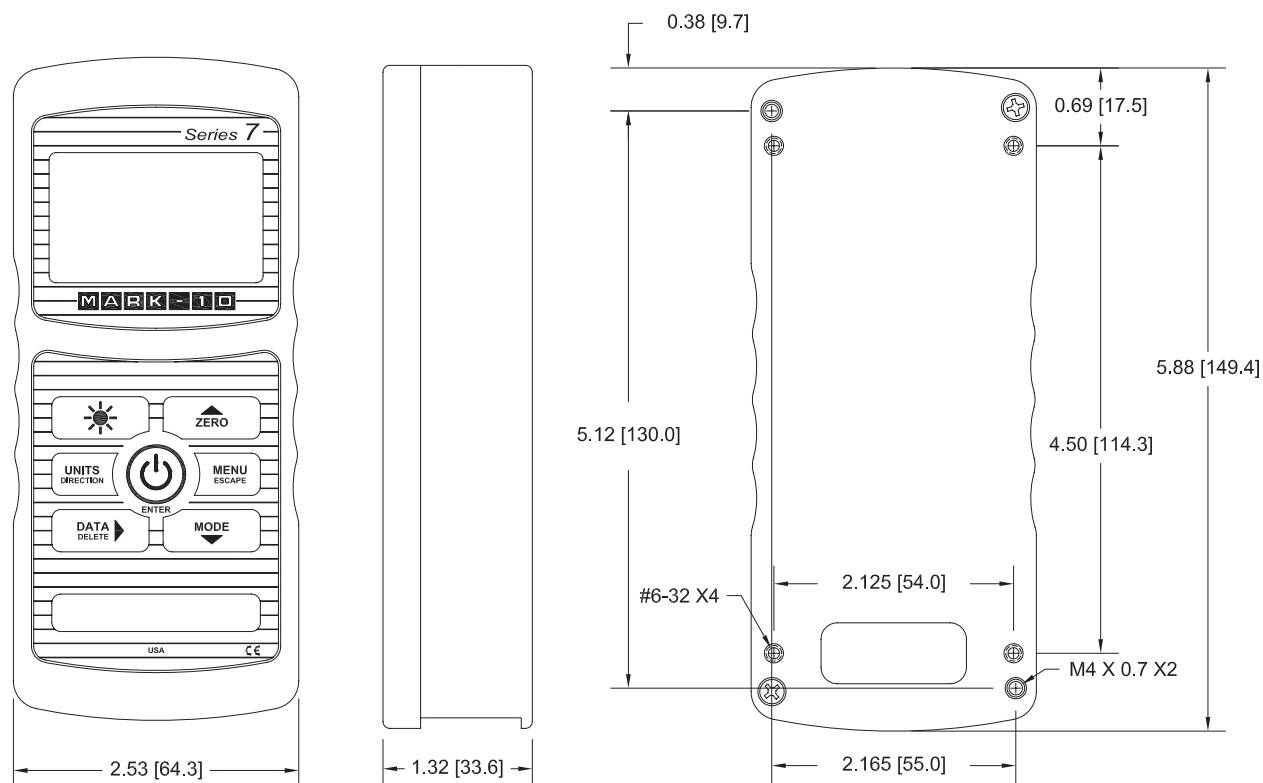


MESUR™ Lite data acquisition software is included with the 7i.

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Model	DESCRIPTION
M7I	Professional Force/Torque Indicator, 110V
M7IE	Professional Force/Torque Indicator, 220V, European Plug
M7IU	Professional Force/Torque Indicator, 220V, UK Plug
M7IA	Professional Force/Torque Indicator, 220V, Australian Plug
AC1008	Tabletop mounting kit for 7i/5i/3i

DIMENSIONS in [mm]

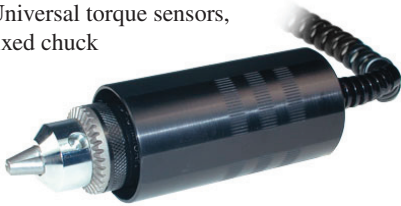


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Models 7i, 5i and 3i force/torque indicators are designed for use with remote force and torque sensors. All calibration and configuration data is saved within the sensors' smart connectors - not the indicator - allowing for true interchangeability. Each sensor series is available in a range of capacities, from 0.25 to 10,000 lbf (1 N to 50 kN) full scale and from 10 ozFin to 5,000 lbfIn (7 Ncm to 550 Nm) full scale. Refer to individual sensor data sheets for further details.

Series R50

Universal torque sensors,
fixed chuck



Series R51

Universal torque sensors
interchangeable
attachments



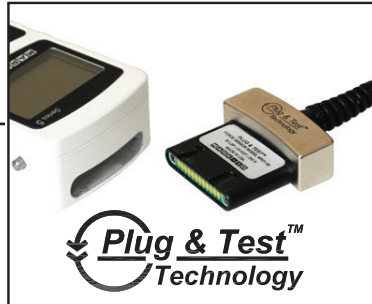
Series R55

Torque sensors



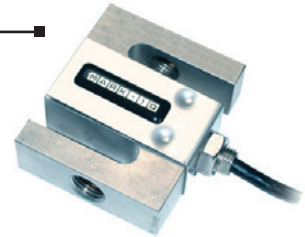
Series R52

Static torque sensors



Series R01

Tension / compression sensors



Series R03

Inline tension / compression sensors



Series R05

Ergonomics testing push / pull sensors



Model 7i
Advanced Indicator



Model 5i
Advanced Indicator



Model 3i
Basic Indicator



Series R53

Closure torque sensors