MODEL 5i - ADVANCED FORCE/TORQUE INDICATOR

he 5i advanced digital force / torque indicator is designed to work with a wide range of remote force and torque sensors. With exclusive Plug & TestTM technology, all calibration and configuration data is saved within the sensor's smart connector, not the indicator, allowing for true interchangeability. In addition, all sensors are fully compatible with the more basic 3i force / torque indicator.

The 5i shares its menu structure and most specifications with Series 5 digital force gauges. The sampling rate is a blazing fast 7,000 Hz, producing accurate results even for quick-action tests. A large, backlit graphics LCD displays large, legible characters, while the simple menu navigation allows for quick access to the indicator's many features and configurable parameters. Data can be transferred to a PC or data collectors via USB, RS-232, Mitutoyo (Digimatic), or analog outputs.

On-board data memory for up to 1,000 readings is included, as are statistical calculations with output to a PC. Integrated set points with indicators and outputs are ideal for pass-fail testing and for triggering external devices such as an alarm, relay, or test stand. An analog load bar is shown on the display for graphical representation of applied force or torque.

The 5i's averaging mode addresses the need to record the average load over time, while external trigger mode makes switch activation testing simple and accurate.

The 5i includes MESUR™ Lite data acquisition software. MESUR™ Lite 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.

- INTERCHANGEABLE FORCE AND TORQUE SENSORS THROUGH PLUG & TEST™ TECHNOLOGY
- SENSOR PASSWORD PROTECTION, TO PREVENT UNAUTHORIZED SENSOR USE
- HIGH-SPEED 7,000 HZ SAMPLING RATE
- USB, RS-232, MITUTOYO, AND ANALOG OUTPUTS
- 1,000-POINT DATA MEMORY WITH STATISTICS AND OUTPUTS
- LIVE LOAD BAR GRAPH WITH SET POINT MARKERS
- PROGRAMMABLE SET POINTS, WITH INDICATORS 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
- CONFIGURABLE AUDIO ALARMS AND KEY TONES
- PASSWORD PROTECTION OF INDIVIDUAL KEYS AND CALIBRATION

SPECIFICATIONS

ACCURACY: $\pm 0.1\%$ of full scale ± 1 digit + sensor

SAMPLING RATE: 7,000 Hz, pulse response of 1/3,500

sec. minimum

POWER: AC or rechargeable battery. Multi-step

low battery indicator is displayed, gauge shuts off automatically when

power is too low.

BATTERY LIFE: **Backlight on / off:** up to 7 / 24 hours

of continuous use

OUTPUTS: USB / RS-232: Configurable up to

115,200 baud. Includes Gauge Control Language 2 for full computer control.

Mitutoyo (Digimatic): Serial BCD suitable for all Mitutoyo SPC-

compatible devices.

Analog: ±1 VCD, ±0.25% of full scale

at capacity.

General purpose: Three open drain

outputs, one input.

Set points: Three open drain lines.

CONFIGURABLE SETTINGS:

Digital filters, outputs, automatic output (via USB/RS-232), automatic shutoff, default settings, averaging mode, external trigger, passwords, key tones, audio alarms, backlight,

calibration.

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SPECIFICATIONS

WEIGHT: 0.7 lb [0.3 kg]

INCLUDED ITEMS: Carrying case, universal voltage AC

adapter, battery, quick-start guide, USB cable, resource CD (USB driver, MESUR™ Lite software, MESUR™ gauge DEMO software, and user's

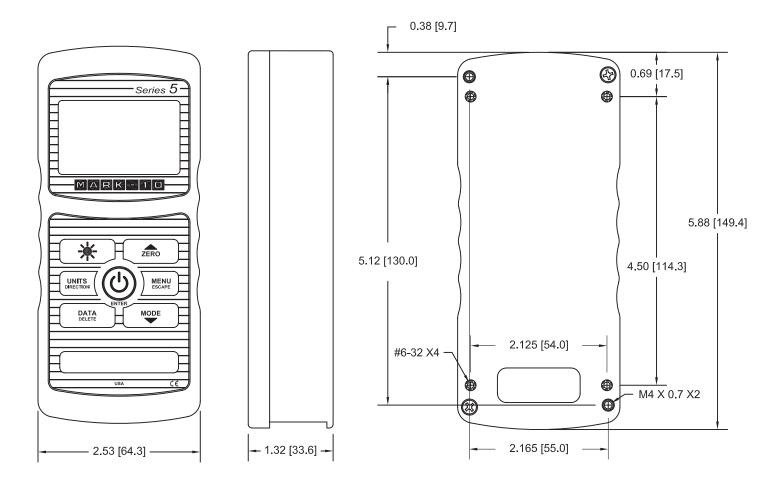
guide), and certificate of conformance.

WARRANTY: 3 years (see individual statement for

further details)



The Plug & TestTM connector locks into the receptacle in the indicator when fully inserted. Dual buttons on the indicator housing release the connector for easy removal. Gold plated spring contacts ensure long lasting and reliable connection.



ORDERING INFORMATION		
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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.

