MESUR® Lite data acquisition software is included with the WT-205

Measure wire crimp pull forces accurately and efficiently with the portable and customizable WT-205 tester. Easily apply up to 200 lbF (1,000 N) of force via en ergonomic lever. The tester's standard adjustable terminal fixture contains multiple slots for diameters up to AWG 3 (0.25 in [6.3 mm]), while the self-tightening wedge grip securely clamps the free end of the cable.

A backlit graphic LCD displays real-time force, peak force, unit of measurement, and pass/fail indicators. Green and red pass/fail indicators may also be used. A load bar on the display shows when an overload is approaching.

Transfer data to a PC or other data collector via USB, RS-232, Mitutoyo (Digimatic), or analog outputs. The WT-205 stores up to 1,000 readings and calculates statistics. Upon sample break, the tester can automatically save and output the peak force and auto-zero in preparation for the next test, increasing testing efficiency.

Use free MESUR® Lite data acquisition software to tabulate continuous or single point data. Data stored in the tester's memory can also be downloaded in bulk. One-click export to Excel allows for further data manipulation.

To accommodate a wide range of materials, optional and interchangeable alternative grips are available. Samples can be sent to Mark-10 for evaluation and recommendation prior to purchase.

Features

- Measures real-time and peak pull forces
- Ergonomic lever operation produces 200 lbF (1,000 N)
- Accommodates cables up to Ø0.25 in [6.3 mm]
- Selection of grips accommodate a wide range of materials
- USB, RS-232, Mitutoyo (Digimatic), and analog outputs
- Automatic output / data storage / zeroing upon sample break increases testing efficiency

- 1,000-point data memory with statistics
- Password protection prevents unauthorized changes
- Pass / fail indicators
- High-speed 7,000 Hz sampling rate accurately captures peak force values
- Configurable audio alarms and key tones
- Mounting holes for bench mounting

▲ The standard adjustable wire terminal fixture accommodates wire diameter sizes up to AWG 3 (0.25 in [6.3 mm]).

▲ An ergonomic lever easily applies force and releases the sample.

▲ The standard self-tightening wedge grip secures and pulls the loose end of the cable.

3 YEAR WARRANTY

Specifications subject to change without prior notice

Controls & Indicators

Battery indicator

Peak force

Current / peak force

Memory storage for 1,000 readings

Profile name

Access the tester's settings menu via an easy-to-use interface

One-push data output to a PC, printer, or other device (auto-output also possible)

Set points (pass / fail limits)

Pass / fail indicators

Unit of measurement

Measurement mode

Zero the reading to begin a new test (auto-zero also possible)

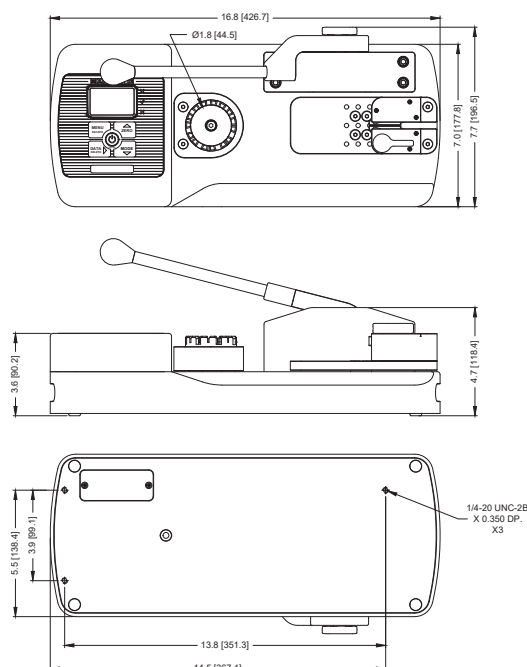Toggle between real time and peak display modes

Optional Functions

Any of these optional functions may be purchased at time of order or may be enabled in the field at a later date though a simple activation process. A complete options package is also available, including all of the listed features at a discounted price. The tester is shipped in Demo Mode, during which time all available functions are enabled for 160 hours of operation.

Feature	Part No.	Description
Profiles	WF010	Save and recall up to 500 sets of test parameters, including pass/fail limits, measurement unit, etc.
Date and time stamp	WF013	A date and time stamp is applied to each saved data point.
Complete options package	WFCOMP-205	Includes all functions listed above.

Specifications

Force capacity:	200 x 0.1 lbF, 3200 x 2 ozF, 100 x 0.05 kgF, 1,000 x 0.5 N, 1 x 0.0005 kN
Accuracy:	±0.2% of full scale
Wire diameter range:	AWG30 - AWG 3 [0.01 - 0.25 in (0.3 - 6.3 mm)]
Minimum sample length:	2.1 in (53.3 mm), excluding termination
Max. elongation:	1.7 in (43.2 mm)
Power:	AC adapter: 100-240VAC, 50-60 Hz, 0.3 A Battery: Rechargeable 8.4V NiMH Low battery indicator appears when battery level is low, and tester powers off automatically when power reaches critical stage.
Sampling rate:	7,000 Hz
Outputs:	**USB / RS-232:** Configurable up to 115,200 baud. **Mitutoyo:** Serial BCD suitable for all Mitutoyo SPC-compatible devices. **Analog:** ±1 VDC, ±0.25% of full scale at capacity.
Safe overload:	150% of full scale (display shows "OVER" at 110% and above)
Weight:	24.5 lb [11 kg]
Environmental requirements:	40 - 100°F, max. 96% humidity, non-condensating
Warranty:	3 years (see individual statement for further details)

Dimensions in [mm]

16.8 [426.7]

Ø1.8 [44.5]

7.0 [177.8]

7.7 [196.5]

3.6 [90.2]

4.7 [118.4]

5.5 [138.4]

3.9 [99.1]

1/4-20 UNC-2B X 0.350 DP. X3

13.8 [351.3]

14.5 [367.1]

MARK-10

Mark-10 Corporation ■ www.mark-10.com ■ info@mark-10.com
Toll-free: 888-MARK-TEN ■ Tel: 631-842-9200 ■ Fax: 631-842-9201

3 YEAR WARRANTY

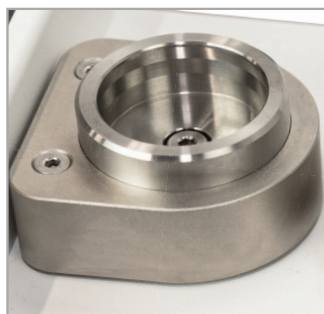Specifications subject to change without prior notice

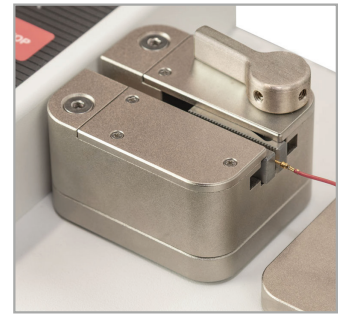## Optional Items

AC1135
Ring terminal fixture
Secures ring terminations. Pin diameter sizes from 1/8 to 3/8 in [3.2 to 9.5 mm]. Replaces the standard turret fixture.

AC1136
Machinable blank terminal fixture
For unique sample shapes and sizes. Replaces the standard turret fixture.
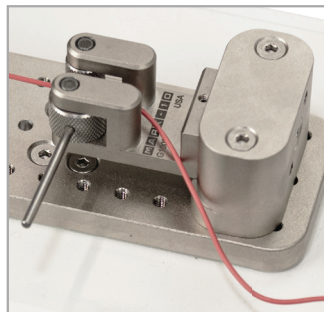

AC1132
Wedge grip assembly
Self-tightening jaws effectively secure the sample. This type of grip is standard on the actuator end, but may also replace the standard turret fixture.

AC1134
Bollard grip assembly
Secures the free end of the sample via a bollard and vise. Based on the model G1102 grip.
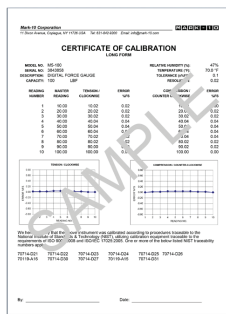

AC1133
Dual roller grip assembly
Cam-action knurled rollers secure the free end of the wire. Replaces the standard wedge grip. Based on the model G1002 grip.
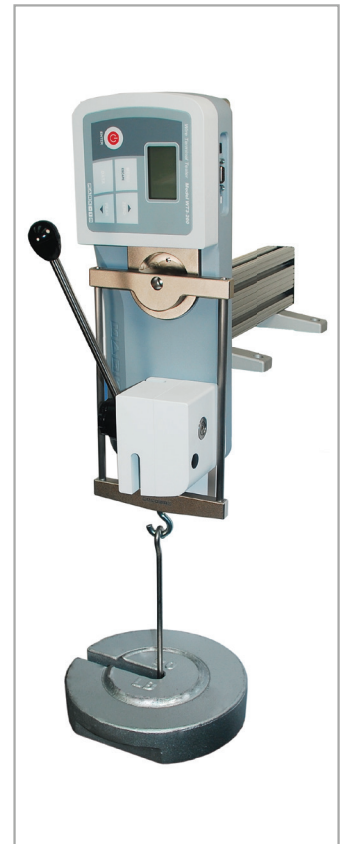

AC1137-1
Carrying case
Provides a cushioned storage space for the tester and accessories.

CERT
Calibration certificate w/data
Includes 10 data points (short form certificate without data is included).
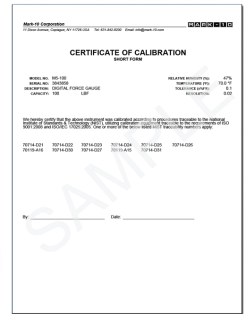

AC1049
Calibration fixture
Complete set of brackets and hardware for calibration of WT-205 or WT-205M. Also compatible with legacy models WT3-201, WT3-201M, and WT3-200. Weights not available from Mark-10.

MARK-10

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3 YEAR WARRANTY

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In The Box

The tester is shipped as shown at right and includes the following accessories:

(1) Removable lever

(1) Turret-style terminal fixture (installed)

(1) Wedge grip assembly (installed)

(1) USB cable

(1) Battery (installed)

(1) AC adapter with 110V US prong

(1) Certificate of calibration without data (data is optional)

Ordering Information

Model	Description
WT-205	Wire crimp pull tester
Optional Functions	
WF010	Profiles
WF013	Date and time stamp
WFCOMP-205	Complete options package for WT-205
Additional Items to Consider	
AC1135	Ring terminal fixture
AC1136	Machinable blank terminal fixture
AC1132	Wedge grip assembly
AC1134	Bollard grip assembly
AC1133	Dual roller grip assembly
AC1137-1	Carrying case
AC1049	Calibration kit
CERT	Certificate of calibration with data

Alternative AC Adapter Prongs

AC1120   **AC1121**   **AC1122**

All instruments include a 110V AC adapter with US prong style. Select an alternative prong adapter (if required) from the table below.

Model	Description
AC1120	Prong for AC adapter, 220V EUR
AC1121	Prong for AC adapter, 220V UK
AC1122	Prong for AC adapter, 220V AUS

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