Data Sheet

Digital Force Gauges **Series 3**

32-1121 REV 1020

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Series 3 digital force gauges are designed for tension and compression force testing in numerous applications from 0.12 lbF to 500 lbF (0.5 N to 2500 N). The gauges feature a sampling rate of

2,000 Hz, producing accurate results under a wide range of test conditions. A backlit graphic LCD displays large characters, and a menu is available to access the gauges' features and configurable parameters. USB output is provided for data collection purposes.

Set point indicators are provided for pass-fail testing. The gauges are overload protected to 200% of capacity, and an analog load bar is shown on the display for graphical representation of applied force.

An ergonomic, reversible aluminum housing allows for hand

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Download Gauge Memory

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held use or test stand mounting for more sophisticated testing requirements. Series 3 digital force gauges are directly compatible with Mark-10 test stands, grips, and software.

Series 3 gauges include MESUR® Lite data acquisition software, for tabulation of continuous or individual data points. One-click export to Excel button easily allows for further data manipulation.



Shown with an ES20 test stand and G1061 wedge grips

Features

High-speed 2,000 Hz sampling rate

is included with Series 3 gauges

- USB data output of continuous or individual data points
- Ultra-compact size
- Large backlit graphic display
- Programmable set points with pass/fail indicators
- Live load bar graph with set point markers
- Peak readings and set points always displayed
- Configurable audio alarms and key tones
- 4 selectable units of measurement
- MESUR[®] Lite data collection software included





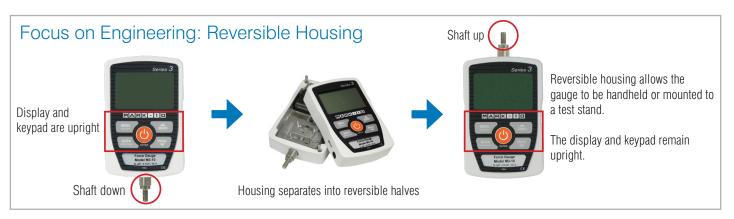


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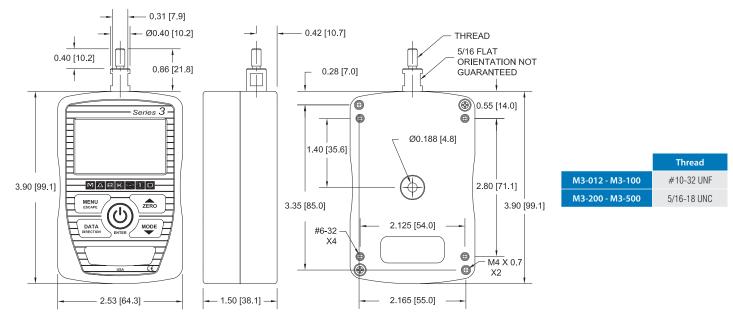
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Specifications

Accuracy:	$\pm 0.3\%$ of full scale			
Sampling Rate:	2,000 Hz			
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 gauge powers off automatically when power reaches critical stage.			
Battery life:	Backlight on / off: up to 7 / 24 hours of continuous use			
USB Output:	Configurable to 115,200 baud.			
Safe overload:	200% of full scale (display shows "OVER" at 110% and above)			
Weight (gauge only):	M3-012 - M3-100: 0.7 lb [0.33 kg] M3-200 - M3-500: 0.9 lb [0.41 kg]			
Load cell deflection:	All models 0.010 [0.25], except 0.005 [0.13] for M3-012			
Environmental requirements:	40 - 100°F, max. 96% humidity, non-condensating			
Warranty:	3 years (see individual statement for further details)			

Dimensions in [mm]







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Series 3 force gauges are shipped as shown at left, and include the following accessories:

- (1) Extension rod *
- (1) Hook *
- (1) Cone *
- (1) Chisel *
- (1) V-Groove *
- (1) Flat *
- (1) Coupling *
- (1) Carrying case
- (1) USB cable
- (1) AC adapter
- (1) Battery
- (1) Certificate of calibration without data (for data, add part no. CERT)
- * The specific accessory depends on the force gauge model. Refer to the website for details.

Capacity & Resolution

Model	lbF	kgF	gF	N
M3-012	0.12 x 0.0001	-	50 x 0.05	0.5 x 0.0005
M3-025	0.25 x 0.0002	-	100 x 0.1	1 x 0.001
M3-05	0.5 x 0.0005	-	250 x 0.2	2.5 x 0.002
M3-2	2 x 0.002	1 x 0.001	-	10 x 0.01
M3-5	5 x 0.005	2.5 x 0.002	-	25 x 0.02
M3-10	10 x 0.01	5 x 0.005	-	50 x 0.05
M3-20	20 x 0.02	10 x 0.01	-	100 x 0.1
M3-50	50 x 0.05	25 x 0.02	-	250 x 0.2
M3-100	100 x 0.1	50 x 0.05	-	500 x 0.5
M3-200	200 x 0.2	100 x 0.1	-	1000 x 1
M3-500	500 x 0.5	250 x 0.2	-	2500 x 2

All models include 110V AC adapters, unless ordered as below:

Add suffix 'E' for euro plug (220V), 'U' for UK plug (220V) or 'A' for Australian plug (220V).

Example: M3-05E, M3-100U, M3-500A



