### Group Four Transducers Inc

The M3 digital force gauges are designed for tension and compression force testing in numerous applications from 0.12lbF to 500lbF (0.5N to 2500N). The gauges feature a sampling rate of 2,000 Hz, producing accurate results under a wide range of test conditions.

Pioneering Measured Solutions

## **FEATURES**

- High speed 2,000 Hz sampling rate
- USB data output
- Ultra compact size
- Large back lit 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
- Ergonomic, reversible aluminum housing for hand held use or test standing mounting
- MES UR lite data collection software included

# DIMENSIONS

# AssemblyQuality control

**APPLICATIONS** 

Manufacturing

Automotive Industry

#### Ø0.40 [10.2] 0.42 [10.7] THREAD HEX 0.40 [10.2] 0.86 [21.8] 0.28 [7.0] @ 0.55 [14.0] Θ Series 3 -⊕ ⊜ Ø0.188 [4.8] 1.40 [35.6] MARK-10 3.90 [99.1] 2.80 [71.1] MENU 3.35 [85.0] 3.90 [99.1] 2.125 [54.0] DATA #6-32 X4 0 M4 X 0.7 œ X2 1.50 [38.1] -2,165 [55,0] 2.53 [64.3]



# digital force gauge

# **SPECIFICATIONS**

Model	M3					
Load Range	0.12 to 500lb (0.5 to 2500N)					
Accuracy	$\pm$ 0.3% of full scale $\pm$ 1 digit					
Sampling Rate	2000 Hz					
Measurement Units	IbF, gF, kgF, N (depending on model)					
Power	AC or rechargeable battery. Multi-step low battery indicator is displayed gauge shuts off automatically when power is too low					
Battery Life	Back light on: up to 7 hours of continuous use Back light off: up to 24 of continuous use					
USB Output	By pressing DATA key only. Configurable up to 115,200 baud					
Safe Overload	150% of full scale (display shows "OVER" at 110% and above)					
Configurable settings	Digital filters, USB output, automatic shut off, default settings, key tones, audio alarms, calibration					
Weight	M3-012 - M3-100: 0.7lb (0.33kg) M3-200 - M3-500: 0.9lb (0.41kg)					
Load Cell Deflection	All models 0.010 (0.25) ,except 0.005 (0.13) for M3-012					
Included Item	Carrying case with chisel, cone, V-groove, hook, flat, extension rod, 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 NIST-traceable certificate of calibration (certificate with data is available for an additional charge)					
Warranty	3 years (see individual statement for further details)					

# PART NUMBER

Model	Thread	Hex		
M3-012 - M3-100	#10-32 UNF	5/16" (7.94 mm)		
M3-200 - M3-500	5/16-18 UNC	11/32" (8.73 mm)		

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

Certificate of calibration with data is available. Part no. is: CERT.

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



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