

# SERIES 7 – PROFESSIONAL DIGITAL FORCE GAUGES

When fast, continuous data sampling and generous data storage are key to your test situation, the Series 7 professional digital force gauge is the unit of choice. The Series 7 gauge can do everything the Series 5 gauge can do, plus more. Its blazing fast sampling rate of 14,000 Hz and internal memory for 5,000 test readings give it a distinct advantage in rapid, dynamic force testing settings. For demanding compression and tension measurements up to 500 lbF (2,500 N), this gauge boasts an accuracy of  $\pm 0.1\%$ . And it is available in eleven different models to suit the specific load range of your measurements. Compatible with all Cooper Instruments test stands, the Series 7 is a versatile tool in the field and test laboratory. Easy to use and read, the gauge quickly connects to any PC for download of stored data. Operates in peak or averaging mode over five different programmable units of measure. Attach an optional foot switch for hands-free operation, and the Series 7 is even more valuable in challenging test situations.

- 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
- EXTERNAL TRIGGER PORT FOR REMOTE OR FOOTSWITCH STARTING AND STOPPING
- LARGE, EASY-TO-READ LCD SCREEN
- FIVE DIFFERENT USER-PROGRAMMABLE UNITS OF MEASURE
- OPTIONAL FOOT SWITCH ALLOWS HANDS-FREE TRIGGERING

## SPECIFICATIONS

LOAD RANGE:	Up to 500 lbF (2,500 N) in eleven different models/ranges
ACCURACY:	$\pm 0.1\%$ of full scale
SAMPLE RATE:	14,000 Hz (pulse response of 1/7,000 second minimum)
MEASUREMENT UNITS:	5 different programmable measurement units
POWER:	AC or rechargeable battery
BATTERY LIFE:	7 – 24 hours continues use (depends on use of backlighting)
OUTPUTS:	USB/RS-232, Mitutoyo (Digimatic), Analog ( $\pm 1$ VDC, $\pm 0.25\%$ of full scale), 3 general purpose open drain outputs, 3 open drain set points
SAFE OVERLOADS:	150% of full scale
CONFIGURABLE SETTINGS:	Many different user-programmable settings
WEIGHT:	1.0 – 1.2 lb (depending on model)
WARRANTY:	3 years
INCLUDED:	Carrying case with chisel, cone, V-groove, hook, flat, extension rod, AC adapter, battery, USB cable, software, certificate of calibration, user manual



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Model	lbF	ozF	kgF	gG	N	kN	mN
M7-012	0.12	2		50	0.5		500
M7-025	0.25	4		100	1		1000
M7-05	0.5	8		250	2.5		2500
M7-2	2	32	1	1000	10		
M7-5	5	80	2.5	2500	25		
M7-10	10	160	5	5000	50		
M7-20	20	320	10	10000	100		
M7-50	50	800	25	25000	250		
M7-100	100	1600	50	50000	500		
M7-200	200	3200	100		1000	1	
M7-500	500	8000	250		2500	2.5	

