



MESUR™ Lite data acquisition software is included with the gauges

The M5-750, M5-1000, M5-1500, and M5-2000 advanced digital force gauges are designed for tension and compression force testing in numerous applications across virtually every industry, with capacities up to 2,000 lbf (10,000 N). The gauges features an industry-leading sampling rate of 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 gauges' many features and configurable parameters. Data can be transferred 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. The gauges are overload protected to 200% of capacity, and an analog load bar is shown on the display for graphical representation of force.

The gauges' averaging mode addresses the need to record the average force over time, useful in applications such as peel testing, while external trigger mode makes switch activation testing simple and accurate. An ergonomic, reversible aluminum design allows for hand held use or test stand mounting for more sophisticated testing requirements. The force gauges are directly compatible with high capacity Mark-10 test stands, grips, and software.



Shown with a TSF test stand in a spring testing application



The gauge include MESUR™ Lite data acquisition software. MESUR™ Lite tabulates continuous or single point data. Data saved in the gauge's memory can also be downloaded in bulk. One-click export to Excel easily allows for further data manipulation.

Features

)JHI TQFFE) [TBNQMJOH SBUF "WFSBHJOH NPEF DBMDVMBUFT BWFSB
 64# 34 .JUVUPZP BOE BOBMPH P VUQVU STOBM USJHHFS NPEF GPS TXJUDI
 -BSHF CBDLMJU HSBQIJD EJTQMBZ SFNPUFMZ TUPQQJOH EJTQMBZ VQEB
 QPJOU EBUB NFNPSZ XJUI TUBUJTUDT BOE P VUQVUT "VUNBUJD EBUB P VUQVU WJB 64# 34
 -JWF MPBE CBS HSBQI XJUI TFU QPJOU TFMFDUBCMF VOJUT PG NFBTVSFNFOU
 1SPHSBNNBCMF TFU QPJOUT XJUI JOE\$BPHVSB CMF PVEJP BMBSENT BOE LFZ U
 1FBL SFBEJOHT BOE TFU QPJOUT BMXBZT EJTQMBZFE 1BTTXPSE QSPUFDUJPO DPOPHVSB CMF
 DBMJCSBUJPO

Display Indicators





\$ B Q B D J U Z Y 3 F T P M V U J P O	<ul style="list-style-type: none"> 750 x 0.5 lbF 12000 x 10 ozF 375 x 0.2 kgF 3750 x 2 N 3.75 x 0.002 kN 1000 x 0.5 lbF 16000 x 5 ozF 500 x 0.2 kgF 5000 x 2 N 5 x 0.002 kN 1500 x 1 lbF 24000 x 20 ozF 750 x 0.5 kgF 7500 x 5 N 7.5 x 0.005 kN 2000 x 1 lbF 32000 x 20 ozF 1000 x 0.5 kgF 10000 x 5 N 10 x 0.005 kN
" D D V S B D Z	±0.1% of full scale
4 B N Q M J O H 3 B U F	7,000 Hz
1 P X F S	AC or rechargeable battery. Multi-step low battery indicator is displayed, gauge shuts off automatically when power is too low.
# B U U F S Z M J G F	# B D L M J H I U P O up to 7 hours of continuous use / # B D L M J H I U P G G up to 24 hours of continuous use
0 V U Q V U T	<p>6 4 # 3 4 Configurable up to 115,200 baud. Includes Gauge Control Language 2 for full computer control.</p> <p>. J U V U P Z P % J H J N B U J D Serial BCD suitable for all Mitutoyo SPC-compatible devices.</p> <p>" O B M P H ±1 VDC, ±0.25% of full scale at capacity,</p> <p>(F O F S B M Q V S Q P T F Three open drain outputs, one input.</p> <p>4 F U Q P J O U T Three open drain lines.</p>
\$ P o p H V S B C M F	
T F U U J O H T	