

# CHATILLON DFS

- TENSION & COMPRESSION
- CAPACITIES TO: 500 lbf/250 kgf/2500 N
- MOTORIZED TEST STAND CONTROL
- ADVANCED FIRMWARE FEATURES
- BI-DIRECTIONAL RS232 OUTPUT
- NEXYGEN GAUGE SOFTWARE
- ACCURACY:  $\pm 0.1\%$



**DFS**  
Digital Force Gage

The **Advanced Chatillon® DFS Digital Force Gauge** combines the basic versatility of its companion DFE Force Gauge with added firmware for use as the **primary control of Chatillon motorized test stands**. Mounted on the Chatillon TCM or TCD, the DFS provides **force set points, pass-fail limits, break detection, contact closure force, statistical calculations, force averaging, load comparison** as well as instantaneous and peak detection.

The DFS features  $\pm 0.1\%$  accuracy to 500 lbf / 250 kgf / 2500 N. The **dot-matrix LCD** features large **0.5" numerals**, 7 information text lines and a bar graph. Five force units are **selectable: lbf, ozf, kgf, gf and N**.

All DFS Digital Force Gauges provide **RS232, analog  $\pm 2$ Vdc and Mitutoyo** outputs and include the required computer interface cable.

**Chatillon Nexygen Gauge Software** provides graphing force versus time and logging tabular for reports with **Excel, Word, Access, Powerpoint and Outlook**.

### CONSTRUCTION

- Rubber keypad with dedicated and dynamic keys and navigation pod.
- 4 1/2" digit 0.5" LCD display.
- Split housing for upright display with shaft up or down.
- American standard threads on load shaft and mounting holes.

### OPERATION

- Controls TCM and TCD motorized test stands.
- Advanced material testing software: break detection, 1st and ultimate peak, load averaging and comparisons, statistical calculations, etc.
- Bi-directional RS232, Mitutoyo and  $\pm 2$  Vdc analog.
- Selectable baud rates: 4,800 to 115,600.
- Peaks captured at 5000 samples/second.
- Display update rate: configurable 2 Hz or 8 Hz.
- Overload protection: 150% of full scale.
- Selectable units of force: lbf, ozf, kgf, gf or N.

### POWER REQUIREMENTS

- Rechargeable NiMH battery for 30 hours of operation.
- Continuous operation with 110 or 220 Vac adapter/charger.

### ACCESSORIES

- Included: NiMH battery, AC adapter/charger, six implements, case, manual and RS232 cable. NIST Calibration Certificate with data and Nexygen software.

### ACCURACY

- Accurate to  $\pm 0.1\%$  of Full Scale,  $\pm 1$  Least Significant Digit.

### WEIGHT & DIMENSIONS

- 1.5 lb [0.7 kg] Shipping Weight: 3 lb [1.4 kg]
- 7" [180 mm] H x 3" [75 mm] W x 1.6" [40 mm] D

MODEL	PRICE	CAPACITY/GRADUATION				
DFS-250G	\$1457.00*	0.5 x 0.0001 lbf	8 x 0.002 ozf	0.25 x 0.0001 kgf	250 x 0.05 gf	2.5 x 0.0005 N
DFS-002	1457.00*	2 x 0.0002 lbf	32 x 0.005 ozf	1 x 0.0001 kgf	1000 x 0.1 gf	10 x 0.001 N
DFS-010	1457.00*	10 x 0.001 lbf	160 x 0.02 ozf	5 x 0.0005 kgf	5000 x 0.5 gf	50 x 0.005 N
DFS-025	1457.00*	25 x 0.002 lbf	400 x 0.05 ozf	10 x 0.001 kgf	10,000 x 1 gf	100 x 0.01 N
DFS-050	1457.00*	50 x 0.005 lbf	800 x 0.1 ozf	25 x 0.002 kgf	25,000 x 2 gf	250 x 0.02 N
DFS-100	1457.00*	100 x 0.01 lbf	1600 x 0.2 ozf	50 x 0.005 kgf	50,000 x 5 gf	500 x 0.05 N
DFS-200	1457.00*	200 x 0.02 lbf	–	100 x 0.01 kgf	–	1000 x 0.1 N
DFS-500	1457.00*	500 x 0.05 lbf	–	250 x 0.02 kgf	–	2500 x 0.2 N

\*DFS includes Nexygen DF Gauge Software and cable for RS232, analog  $\pm 2$ Vdc and Mitutoyo outputs.

Prices and specifications are subject to change without notice.

[www.wagnerinstruments.com](http://www.wagnerinstruments.com)

**CALL US TOLL FREE 800-345-4188**

