

# CHATILLON

## DFE/E-DFE

- TENSION & COMPRESSION
- CAPACITIES TO: 500 lbf / 250 kgf / 2500 N
- MOTORIZED TEST STAND CONTROL
- BI-DIRECTIONAL RS232 OUTPUT
- NEXYGEN GAUGE SOFTWARE
- ACCURACY: ± 0.25% F.S.



**DFE**  
Digital Force Gauge

The Chatillon® DFE Digital Force Gauge provides basic force measuring in 2 versions, the DFE and the E-DFE. The same useful firmware features are shared, in addition, the E-DFE provides bi-directional RS232 output for motorized test stand control and computer data collection and graphing.

The DFE/E-DFE features ± 0.25% accuracy to 500 lbf / 250 kgf / 2500 N. The dot-matrix LCD features large 0.5" numerals, 7 information lines and a bar graph. Five force units are selectable: lbf, ozf, kgf, gf and N.

In addition to all standard DFE features, the E-DFE provides RS232, analog ± 2Vdc and Mitutoyo outputs and includes the required cable to perform and graph tests using a computer. Optional Chatillon Nexygen Gauge Software provides the means for graphing force versus time and logging tabular results 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 (E-DFE).
- Bi-directional RS232, Mitutoyo and ± 2 Vdc analog (E-DFE).
- Selectable baud rates: 4800 to 115,600.
- Peaks captured at 5000 samples/second.
- Display update rate: 10 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, NIST Calibration Certificate with data and RS232 cable (E-DFE).

### ACCURACY

- Accurate to ± 0.25% of full scale, ± 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	MODEL	PRICE	CAPACITY/GRADUATION				
DFE-002	\$945.00	E-DFE-002	\$1045.00*	2 x 0.001 lbf	32 x 0.01 ozf	1 x 0.001 kgf	1000 x 1 gf	10 x 0.01 N
DFE-010	945.00	E-DFE-010	1045.00*	10 x 0.01 lbf	160 x 0.1 ozf	5 x 0.001 kgf	5000 x 1 gf	50 x 0.01 N
DFE-025	945.00	E-DFE-025	1045.00*	25 x 0.01 lbf	400 x 0.1 ozf	10 x 0.01 kgf	10,000 x 10 gf	100 x 0.1 N
DFE-050	945.00	E-DFE-050	1045.00*	50 x 0.01 lbf	800 x 0.1 ozf	25 x 0.01 kgf	25,000 x 10 gf	250 x 0.1 N
DFE-100	945.00	E-DFE-100	1045.00*	100 x 0.1 lbf	1600 x 1 ozf	50 x 0.01 kgf	50,000 x 10 gf	500 x 0.1 N
DFE-200	945.00	E-DFE-200	1045.00*	200 x 0.1 lbf	—	100 x 0.1 kgf	—	1000 x 1 N
DFE-500	945.00	E-DFE-500	1045.00*	500 x 0.1 lbf	—	250 x 0.1 kgf	—	2500 x 1 N
NC002867	215.00	Software, Nexygen DF Gauge						

\*E-DFE includes the cable for RS232, analog ± 2Vdc and Mitutoyo outputs.

Prices and specifications are subject to change without notice.

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

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