





DFE3 SERIES

DIGITAL FORCE GAUGE







FUNCTIONS AND FEATURES





The DFE3 Series offers the best price performance of any digital force gauge available today. This compact, easy-to-use force gauge is designed for basic and complex applications. Ideal for handheld or test stand applications.

Measurement accuracy is better than 0.2% full scale in integral load cell models. A large, easy-to-read, high resolution, full color LCD display supports a variety of standard gauge functions including normal and peak readings, high/low limits, setpoints, pass/fail results, statistical results, load averaging, loadcell actuation and direction. Loads are displayed in ozf, gf, lbf, kgf and N units. The display can be inverted and displayed results may be "hidden" from the operator. The DFE3 also offers password protection for gauge set ups.

Comprehensive Results

The DFE3 Series supplies you with comprehensive results that are easy to view and understand. The gauge displays:

- · Measured Result with Units:
- Peak Tension and Compression.
- Load Average/Time.
- · Operating Mode.
- · Pass-Fail Result.
- High and Low Load Results.
- · Saved Results.
- Statistical Calculations:
- Average with MIN and MAX Results.
- Cv with Average and Standard Deviation.
- Standard Deviation.
- Graphical representation of saved results.

72 %

BATTERY LIFE

The extraordinarily long battery life of the DFE3 reduces the need for continuous recharging. The dimming functionality of the DFE3 provides a battery life of 30 hours when the dimming is off while turning the dimming on will provide a full 40 hours of battery life.

Outputs

The DFE3 Series comes standard with a USB-C connection. The USB interface allows communications with a PC.

Calibrate and Verify Status

The DFE3 Series incorporates flash memory. You have immediate access to battery conditions, including estimated battery life remaining. You can also view loadcell status, including the number of overloads that have been applied to the gauge.

Time Method

The Time method allows you to establish your load averaging based on a load threshold and time duration. The load threshold determines the start of the averaging, while the time duration defines the length of the test period. The gauge will begin taking readings when the threshold is reached and will continue to take and average readings until the time duration has expired.



The comfortable ergonomic design makes the DFE3 a pleasure to use.







FUNCTIONS AND FEATURES



UNIQUE USER INTERFACE

Easy to use, single layer user interface. No deep menu structure! Operate and set-up the DFE3 to perform your tasks. Fast and intuitive!

The high resolution display features brightness adjustments and can be inverted when required. The display can even be "hidden" at the press of a button. A load bar graph indicating load direction, measured load, and safe load helps prevent overloads: the load bar changes from green to red to indicate proximity to load cell capacity. The integral loadcells feature mechanical overload protection at 150% Full Scale.

DEPENDABLE MEASUREMENTS

The DFE3 Series features an integral loadcell sensor that delivers repeatable, accurate results. The innovative load bargraph shows dynamic load, direction of load and warns you of pending overload conditions. Smart technology in the gauge even keeps track of overload history to aide in maintenance and troubleshooting.



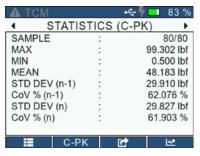
RESULTS AND STATISTICS ON BOARD



Live result screen with run number, pass/fail indicator, units, and display mode.



Saved results on the internal 32 GB SD card can be viewed and exported.



Statistics on saved results can be exported...



and a plot of saved results with Max and Min Average value can be displayed.







AUTOMATE WITH FORCETEST



EXPAND FUNCTIONALITY

The ForceTest software expands the functionality of your Chatillon DFE3 force gauge.

This easy-to-use Windows based software interfaces directly to your digital force gauge enabling you to automatically perform tests and graphs using a personal computer.

Test results can be followed directly on the screen while the test is running.

INTUITIVE USER INTERFACE

The colorful and intuitive user interface ensures that tests are simple to set up. Custom chart colors can be set for easy viewing.

Units of measure, fonts, titles and force measurement resolution can also be customized through the ForceTest software.

EASY EXPORT AND REPORTING

Test results are presented in a preadsheet format allowing you to analyze and manipulate data and perform common mathematical and statistical calculations.

Results may be displayed graphically versus time. Tabular results are displayed and can be used to create relationships, queries or used to produce reports.

Test results can be exported to a .csv format.

Graphs and test results can also be exported directly to PDF and Word formats.

WIDE VARIETY OF OPTIONS

Force at maximum in a time window, average force and much more can be captured using the ForceTest software.

Basic force measurement such as tensile and compression test formats, pull to limit, and compress to limit are performed by clicking just a few buttons.

REDUCE SETUP TIME

To reduce setup time the ForceTest software offers pre-set templates. It also empowers its user to auto load the latest test performed, and to open previously saved tests for use as template for new tests.









ACCESSORIES



SUPPLIED READY-TO-GO

Regardless of the configuration, your DFE3 is supplied ready-to-go. The gauge and accessories are supplied in a durable carrying case that is designed for all components including adapters and a USB charger. The units are powered by an internal, rechargeable Lithium-Ion battery. The compliment of adapters is comprehensive and includes a hook, compression tip, pointed tip, chisel tip, and a notch tip: everything you need to get started.

RESULTS AND STATISTICS ON BOARD

Chisel Point, 110 lbf	SPK-FMG-008A
Chisel Point, 550 lbf	SPK-FMG-008B
Point Adapter, 110 lbf	SPK-FMG-009A
Point Adapter, 550 lbf	♦ SPK-FMG-009B
Notch Adapter, 110 lbf	SPK-FMG-010A
Notch Adapter, 550 lbf	SPK-FMG-010B
Flat Adapter, 110 lbf	SPK-FMG-011A
Flat Adapter, 550 lbf	♦ SPK-FMG-011B
Hook, 50 lbf	SPK-FMG-012A
Hook, 110 lbf	SPK-FMG-012B
Hook, 550 lbf	♦ SPK-FMG-012C
Extension Rod, 6" (152mm), #10-32	SPK-FMG-013A
Extension Rod, 6" (152mm), 5/16-18	SPK-FMG-013B
Carrying Case	SPK-DF-118

Load Cell Shaft Protector SPK-DFG	3-001
#10-32 to 5/16-18 Adapter	10020
Handle Assembly, DFE3/DFS3	NDLE
Handle Assembly, DF3 Series	6873
Grip Handle, MSC/FCE Rev.A	02825
Screw, Flat Head Socket Cap Rev Et	08-257

RS232 Cable, 10' (3m)
Pistol Grip SPK-FMG-141
Swivel Hook, 50 lbf
Swivel Hook, 110 lbf
Swivel Hook, 225 lbf
Swivel Hook, 550 lbf
Hook, Latch

5/8	Eye End Kit with Grip Pin for GaugesSP	K-TCM-001
	Phan 5/8 Eye End Kit with SPK-TCM- Grip Pin for Gauges	001/PHAN
	Shaft, Load Cell to 5/8 Eye End, 5/16-24M o 5/16-18M Rev A	NC003235
ι	Jpper Eye End Adapter, 5/8" to 5/16-18F Rev A	NC003236
L	ocking Ring Rev –	NC003140
L	ocking Ring – Eye End, 5/16-18F Rev A	NC003237
ι	Jse PIT/0169/00 Pin, Small Grip Rev 5	NC000612
	Adapter, 5/16-18M to 5/16-18F THRDor Ã~5/8 Upper Eye End, DFG3	NC003254
	Adapter, 5/16-18M to 10-32F THRD	NC003255

Kit, DF Metric Couplers #10-32_M6;
Coupling #10-32 Female to M6x1mm Female Rev NC002652
Coupling 5/16-18 Female to M6x1mm Female Rev NC002658
Adapter, Threaded, M8x125 to 5/16x18, DFG3NC003256

Battery Charger, Universal, with Cable ♦ SPK-DF3-UNIV
Cable, USB-C/USB-A, 3 FT, Black
Adapter, Wall Mount, AC/DC, 5V, 5W, USB-A
Kit, AC Adapter for P/N 6886

Force Test DF2 & DF3 Software







DFE3-500

ORDERING

MODELS ACCURACY: 0.2% FS

500.00

0.01

2500.0



	lk	of	1	N	k	gf	ozf		gf	
Model	Full Scale	Resolution								
DFE3-002	2.0000	0.0001	10.000	0.001	1.0000	0.0001	32.000	0.001	1000.0	0.1
DFE3-010	10.000	0.001	50.000	0.001	5.0000	0.0001	160.00	0.01	5000.0	0.1
DFE3-025	25.000	0.001	100.00	0.01	10.000	0.001	400.00	0.01	10000	1
DFE3-050	50.000	0.001	250.00	0.01	25.000	0.001	800.00	0.01	25000	1
DFE3-100	100.00	0.01	500.00	0.01	50.000	0.001	1600.0	0.1	50000	1
DFE3-200	200.00	0.01	1000.0	0.1	100.00	0.01				

250.00

0.01



DFE3 PORTS

0.1

A USB-C port is used to export results to LIMS or to the optional Chatillon ForceTest software.



SPK-TCM-001

The redesigned grip and fixture connection kit offers more flexibility with a wide variety of fixtures.







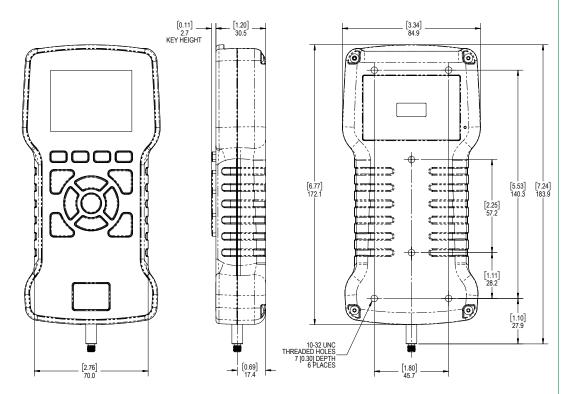
SPECIFICATIONS AND DIMENSIONS



SPECIFICATIONS

Accuracy ±0.2% of Full Scale
Maximum Overload
Resolution
(according the Unit & Capacity)
Peak Capture Rate
Data Sampling
Display Update Rate
Data Save (internal 32Go SD Card) Up to 100 Results
Loadcell Thread End (10 to 100 lbf)#10-32
Loadcell Thread End (200 & 500 lbf)
Power Battery (Lithium Ion) or via the USB-C port
Battery Life With Dimming On: 40 Hours
With Dimming Off: 30 Hours
Operating Temperature
Instrument Weight
Shipping Weight

DIMENSIONS



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