

# Chatillon® K-DFE Series Digital Force Gauge

Specification Sheet  
SS-KDFE-0210  
February 2010

The CHATILLON® K-DFE Series is ideal for functional capacity evaluations and job task analysis. This compact, easy-to-use force gauge has a measurement accuracy of better than 0.25% full scale. A large, easy-to-read, high resolution dot matrix LCD display supports a variety of measurements including functional capacity (Load Averaging) based on a force or a time duration. The gauge also displays normal and peak readings, pass/fail results and statistics based on up to 10 stored results. Measurements are displayed in ozf, gf, lbf, kgf and N units. The display can be inverted and displayed results may be "hidden" during testing. The K-DFE gauge comes standard with carrying case, battery adapter/charger and NIST Certificate of Calibration with data. A variety of testing fixtures are supplied standard. The K-DFE gauge has a standard RS232 digital output for exporting data to a personal computer using our TCD WEDGE application software.

## Features

- Advanced Operating Modes
  - Functional Capacity (Load Averaging)
    - Force-Based
    - Time Duration-Based
  - Normal
  - Peak Strength
  - Average Strength
  - Strength Limits
  - Pass-Fail Limits
- Statistical Calculations
  - Mean with Maximum and Minimum Values
  - Coefficient of Variation with Mean and Standard Deviation
  - Standard Deviation with Variance and Mean
  - % Differentiation
- Integral Loadcells
  - Accuracy  $\pm 0.25\%$  Full Scale
  - Mechanical Overload Protection to 150% Full Scale
- Simple Operator Interface
  - High Resolution Dot-Matrix
  - Menus with Prompts for Easy Use
  - Dedicated and Function Keys with Navigation Pod
- NIST Calibration with Data
  - Available IEC/ISO17025 Cert with Uncertainty
- 2 Year Warranty



Shown: K-DFE Series with standard accessories

## Notice

The K-DFE digital force gauge is a general purpose force measurement instrument. It is not intended for applications requiring Class 2 designation by the United States Food & Drug Administration or by Health Canada.

Quality Assured

1.800.561.8187

www.itm.com

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## Ordering

### Standard Models

Model	Capacities		
K-DFE-100	100 x 0.1 lbf	50 x 0.01 kgf	500 x 0.1 N
K-DFE-200	200 x 0.1 lbf	100 x 0.1 kgf	1000 x 1 N
K-DFE-500	500 x 0.1 lbf	250 x 0.1 kgf	2500 x 1 N

### K-DFE Accessories

Part No.	Description	K-DFE-XX	Capacity	Thread
SPK-FMG-011B	Flat Adapter	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-012C	Hook, Stationary	●	500 lbf, 2.5 kN	5/16-18F
NC002500	Hook, with Snap Latch	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-008B	Chisel Point Adapter	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-009B	Point Adapter	●	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-010B	Notch Adapter	●	500 lbf, 2.5 kN	5/16-18F
NC000725	V-Notch Fixture, Large	■	500 lbf, 2.5 kN	5/16-18F
NC000721	V-Notch Fixture, Small	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-013B	Extension Rod, 13-inch	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-142	Curved Compression Fixture	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-143	Compression Plate, Circular	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-144	Palm Fixture	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-145	Compression Plate, Rectangular, Large	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-146	Compression Plate, Rectangular, Small	■	500 lbf, 2.5 kN	5/16-18F
NC002844	Grasping Loop	■	500 lbf, 2.5 kN	5/16-18F
NC000857	Knurled Nut	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-141	Pistol Grip	■	500 lbf, 2.5 kN	5/16-18F
SPK-DF-HANDLE	Handle Assembly	■	500 lbf, 2.5 kN	5/16-18F
SPK-FMG-015	Hex Key	■		
NC002860	Battery Charger Adapter	■		
SPK-FMG-149	Carrying Case	■		
NC002845	Soft Case Fanny Pack	●		

Standard Accessory = ■

Optional Accessory = ●



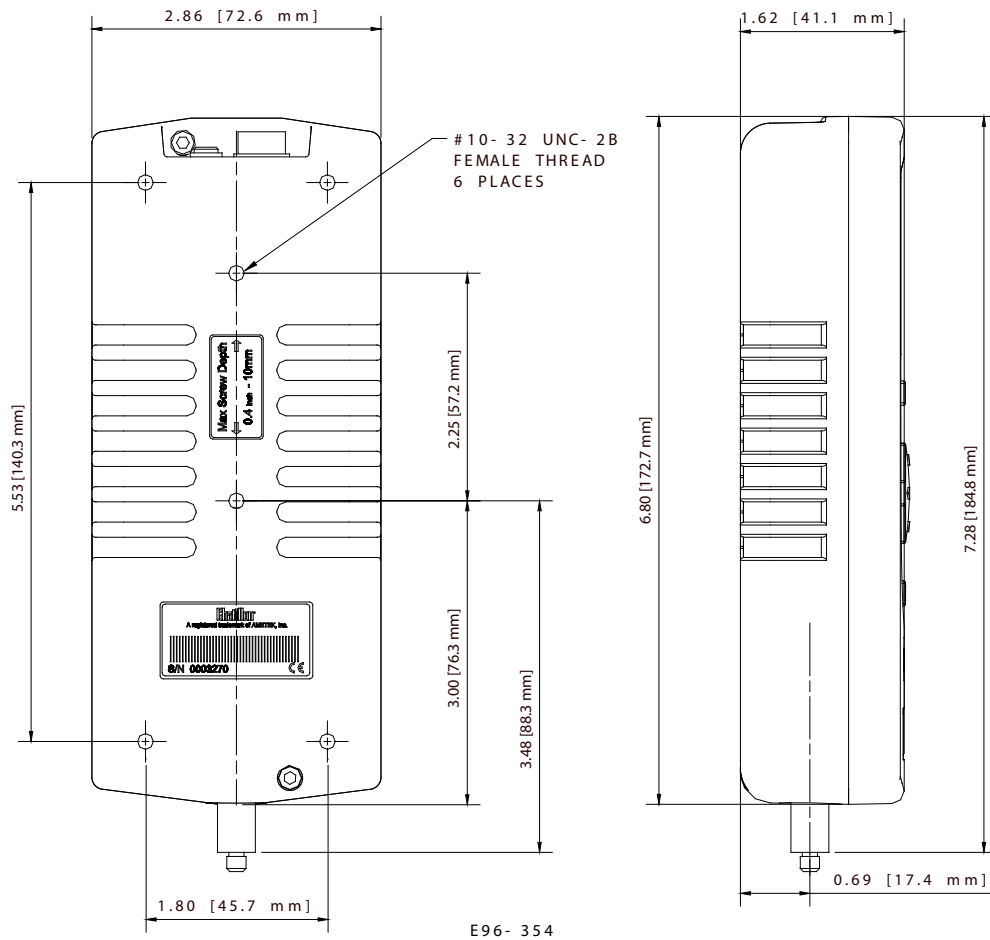
Shown: MSCK-TRAVEL kit. Separate carrying case for medical evaluation accessories. No cutout for digital dynamometer.

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## Dimensions



## Specifications

**Accuracy:**  $\pm 0.25\%$  of full scale

**Certification:** Calibration with NIST Data, IEC/ISO17025 optional

**Data Sampling Rate:** 5000 Hz

**Peak Capture Rate:** 5000 Hz

**Display Update Rate:** 8 Hz

**Tare Capacity:** 10% full scale

**Overload Protection:** 150% full scale

**Display Characteristics:** High resolution, dot-matrix LCD, 8 lines, 40 characters, adjustable contrast, invert and "hide" capability

**Automatic Shut Down:** Configurable time. May be disabled.

**Data Storage:** 10 results

**Outputs:** RS-232, Mitutoyo (Digimatic) and +2Vdc analog

**Power:** Battery or direct AC operation. Universal Power 110V/230V, Rechargeable Nickel Metal Hydride (supplied), International Universal AC Adapter

**Battery Life:** Approximately 30 hours, continuous use

**Instrument Weight:** 1.5 lbs (0.7 kg)

**Operating Temperature:** 40<sup>o</sup> to 100<sup>o</sup>F (4<sup>o</sup> to 38<sup>o</sup>C)

**Warranty:** 2 year

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