

Chatillon®

K-DFE Series Digital Force Gauge

Specification Sheet

SS-KDFE-0309

Mar 2009

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" from the patient 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

Quality Assured.

AMETEK® | **Chatillon®**
Force Measurement

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www.chatillon.com

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 | ● | | |

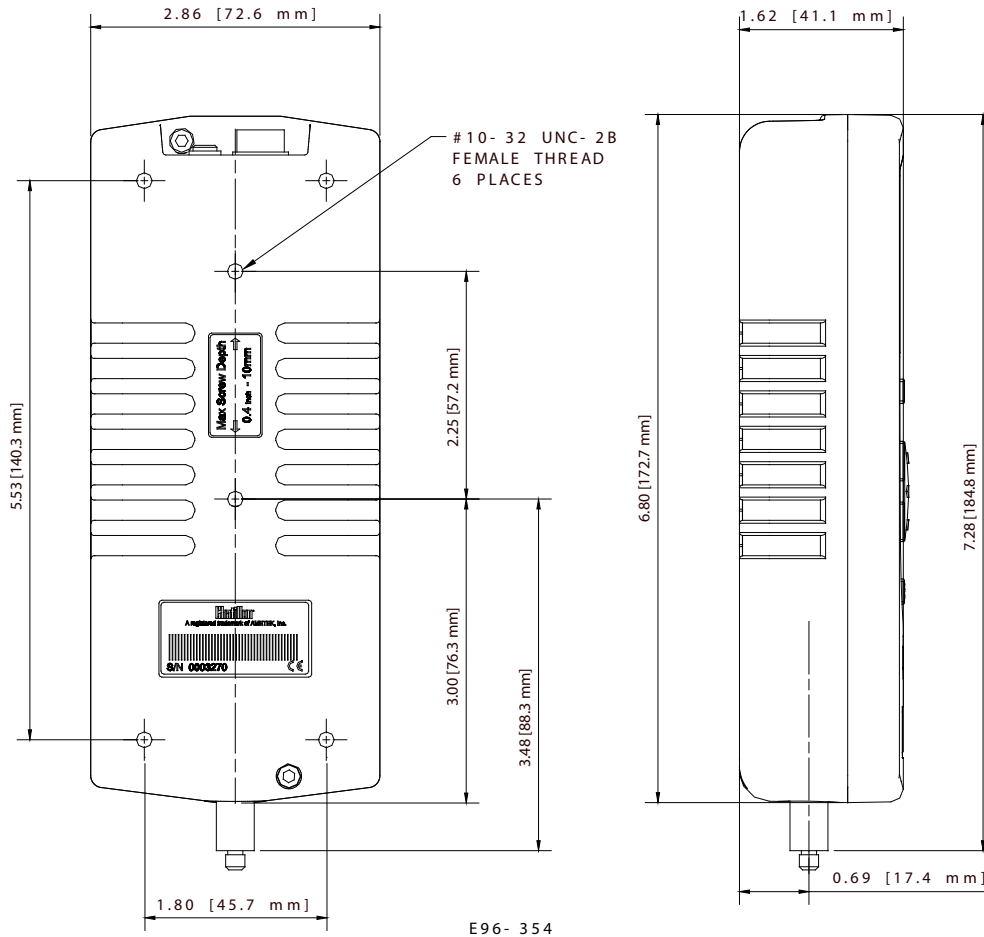
Standard Accessory = ■

Optional Accessory = ●



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

Dimensions



E96- 354

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° to 100°F (4° to 38°C)

Warranty: 2 year

AMETEK

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