

## Specifications

### ***SURETEST* Torque Calibration System**

#### **System Accuracy**

$\pm 0.25\%$  of reading @ 25°C  
(Suretest and transducer calibrated together)

*SURETEST* Transducers used with, but not calibrated to, another *SURETEST* provide a system accuracy of  $\pm 0.5\%$  of reading @ 25°C.

#### **Temperature Drift**

$+0.03\%/^{\circ}\text{C}$  ( $+0.017\%/^{\circ}\text{F}$ )

#### **Display Accuracy**

$\pm 0.05\%$  of reading @ 25°C

#### **Temperature**

##### **Operating Temperature**

10 to 32°C (50 to 90°F)

##### ***Storage***

-20 to 50°C (-2 to 122°F)

##### **Humidity**

Up to 90%, Non-condensing

##### **Temperature Drift**

$+0.011\%/^{\circ}\text{C}$ , ( $+0.006\%/^{\circ}\text{F}$ )

#### **Dimensions**

Width 10.5"

Height 4.5"

Depth\* 10.5"

\*Includes handle, feet and connectors

#### **Weight**

8.4 lbs

#### **Fuse:**

Amperage, 3.15 amps

#### **Data Storage/Recall w/Date Time Stamp**

3,000 measurements

#### **Statistical Analysis**

Max, Min, Range, Mean, Sigma N, Sigma, Cp, Cpk  
%Error, -NoGo, +NoGo, Histogram.

## Printer Serial Output Port

Default: 9600 Baud Rate.

### Serial Communications

RS-232 (true)  
300—19.2K Baud  
8 data bits  
1 stop bit  
no parity

## Computer Serial COM Port (OPTIONAL)

Default: 19,200 Baud Rate.

RS-232 (True)

## Analog Output

+(CW)/-(CCW) 1.8V at transducer full range linearity  
±1% of reading

## Loader Control Relays

Two, normally open, Form A, rated 12VDC @ 1/2A close contact at 110% CW or CCW of torque transducer range. For additional information refer to Transducer and System specifications.

## Display Capacity

(16 bit A/D), 5 digits, ±32,000 counts

## Units of Measurement

Torque  
ft-lb, in-lb, in-oz, Nm, dNm, cNm, mkg, cmkg

## Torque Resolution

Refer to transducer range and display resolution tables in Functional Description of this chapter.

## Accuracy

±0.2% of reading @ 25°C, within specified range, when used as prescribed with the 2000-600-02 Loader.

## Range and Resolution

Refer to transducer range and display resolution tables in Functional Description of this chapter.

## Temperature

Operating Temperature  
10 to 32°C (50 to 90°F)  
Storage  
-20 to 50°C (-2 to 122°F)  
Humidity  
Up to 90% non-condensing  
Temperature Drift  
+0.02%/°C (+.011%/°F)

## Manual Loader Specifications

**Input Torque (Hand Crank)**

8 ft lb maximum (without Motorized control).

**Output Torque**

2000 ft-lb  $\pm 20$  degrees rotation maximum

**Power Requirements (safety solenoids)**

switching From 100 to 230VAC  $\pm 10\%$ , @ 50-60 Hz.

**Weight (including 2000-100-02 Roll Cab)**

1500 lbs.

**Optional Calibration Fixturing (Load bars and Weights)**

$\pm 0.05\%$  accuracy.