

## Compact Gauge User's Guide

### Introduction

Thank you for choosing the Dillon Compact Gauge. With correct use and regular recalibration it will give many years of accurate and reliable service.

Upon receiving the unit please check for obvious physical damage to the packaging material and the instrument itself. If any damage is evident please notify your Dillon distributor immediately.

### Operation

#### Attaching Test Probe

Attach an appropriate probe for your application. The package includes a test hook, compression platen and an extension rod. Thread the probe onto the 10/32 threads on the bottom of the gauge.

#### Inserting Batteries

Slide the battery cover on the back of the gauge up to remove it. Insert the four AA size batteries and replace the cover.

#### Powering Up the Gauge

As shown at right, the Compact Gauge has only four buttons. To power up the unit, press the **ON/ZERO** button. A short self test runs during which the display will show the software version number, revision date and the instrument's capacity in newtons.

After the self test and providing no load has been applied to the instrument the display will show all zeroes.

The instrument is now ready for use. Apply a force to the probe and the display will show the applied force.

#### Display

Tensile forces are displayed as positive numbers and compressive forces as negative numbers. The display also has symbols which directly relate to this sign (two triangular arrows pointing away from each other for tension and two triangular arrows pointing toward each other for compression).

#### Zeroing the Gauge

During the operation of the unit it is often necessary to zero the display. Do this by pressing the **ZERO** button. The top and bottom row of display segments will alternately blink once. The display should then read all zeroes.

#### Changing Unit of Measure

You can choose among the following units of measure by pressing the **UNITS** button: pounds, ounces, Newtons, kiloNewtons, and kilograms.



## Peak Readings & Overload

The instrument detects and stores peak compression and tension. Press the **MAX** button. The display will show the word **MAX** and the highest tensile load detected along with the tension symbol. If the peak was an overload, the display will show **OL**. If **-OL-** is displayed the unit is in a state of overload condition. A force greater than 120% of capacity will show this symbol and may cause irreparable damage. The gauge keeps a record of overloads applied. This record can only be cleared by a Dillon technician.

Press the **MAX** button again and the display will show the maximum compressive load detected along with the compression symbol. Press the **MAX** button one more time to return to regular operation. Press the **ZERO** button to clear both peak readings and zero the instrument.

## Auto Off Function

This unit will shut itself off after approximately five minutes if no buttons are pushed. This is to save battery power. If you are running a long test and do not want this function enabled turn off the unit then press and hold the **ON/ZERO** button until **No Ao** is displayed. This means the Auto Off function is disabled.

## Low Battery

If the **LOW BATTERY** symbol appears, the gauge will power off at intervals of one minute. This will happen even if a key has been recently pressed or if the Auto Off function is enabled. Replace the batteries when the low battery symbol appears.

If the gauge is not used for extended periods, remove the batteries. Settings and calibration data will not be lost if the batteries are removed for long periods of time.

## Display Messages

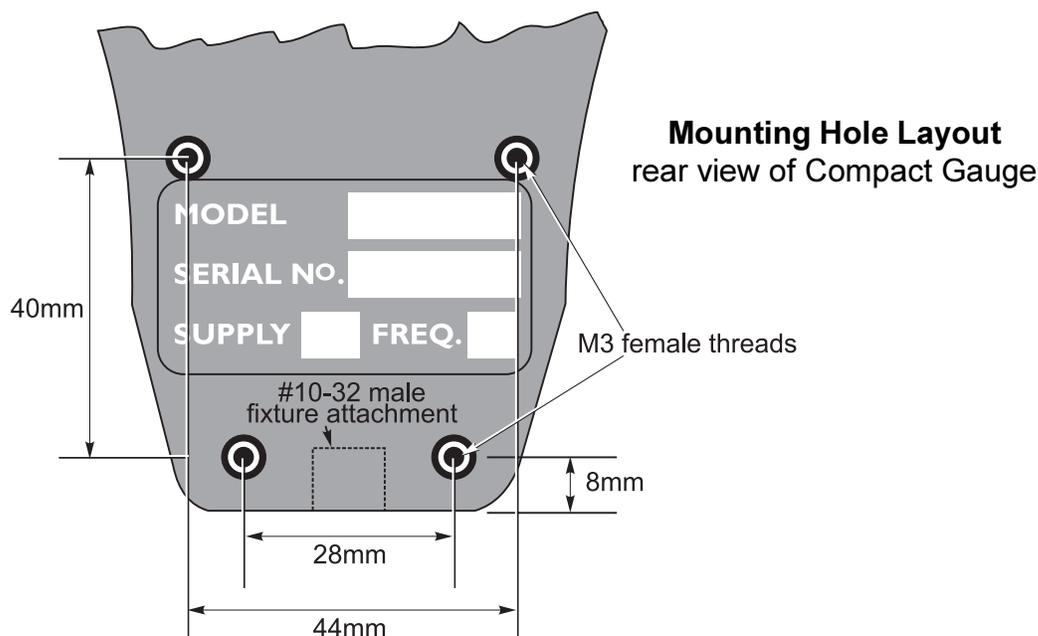
In addition to the display messages mentioned previously, you may see one of the following messages:

**t-Err** Tare Error - The zero function was performed while the transducer was in an overloaded state.

**C-dEF** Calibration default - Calibration data is corrupt. Notify your Dillon representative for recalibration.

## Optional Equipment

- AC power adapter
- Dovetail Mounting Plate - for mounting to a Dillon Test Stand (See the Dillon Bench Top Testing Accessories Catalog for a full line of fixtures and grips compatible with this unit.)



### Dillon

A division of Weigh-Tronix Inc.  
1000 Armstrong Dr.  
Fairmont, MN 56031 USA  
Telephone: 507-238-4461  
Facsimile: 507-238-8258  
e-mail: [dillon@weigh-tronix.com](mailto:dillon@weigh-tronix.com)  
[www.dillon-force.com](http://www.dillon-force.com)

**DILLON**

Force Measurement Products & Systems