



# Model 210 and Model 250 *Digital Weight Indicator*

## USER MANUAL



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## 2. General

The Model 210 and Model 250 Digital Indicators can be used with a variety of load cell assemblies. This manual covers most applications.

### 2.1 Features

- **Push Button Zero** - the current display weight can be zeroed at any time with the press of a key. The entire range of the scale can be zeroed.
- **Zero Tracking** - the indicator will automatically adjust for build-up on the scale. A flash of the unused Units light indicates the **Zero Tracking** feature is operating.
- **Multiple Weighing Units** - switch the current **Weighing Units** between pounds and kilograms with the press of a key. The decimal point and display resolution settings change automatically.
- **Hold/Print** - average and **Hold** live weights with the press of a key. The optional RS-232 port allows for computerized record keeping or serial printer connection.
- **Optional Internal Battery** - run continuously for up to 40 hours without recharging. Ideal for mobile applications.
- **Low Voltage Indicator** - lets you know when power to the Digital Weight Indicator is low.

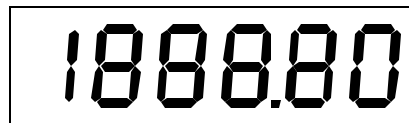
### 3. Basic Operation

#### IMPORTANT

Do not disconnect the power supply to turn the indicator off. Use the **ON/OFF** key. Important information is saved in memory when the indicator is turned off properly.

#### 3.1 Turning the Indicator On

1. To turn the Indicator on, press and hold **ON/OFF** until the display test pattern appears.



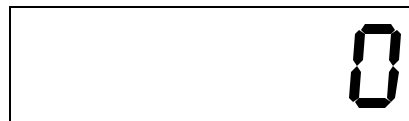
2. Allow the indicator to warm up and the display to stabilize for a few moments.



3. Press **ZERO** if necessary.



4. The indicator displays zero.



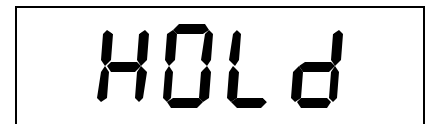
### 3.2 Turning the Indicator Off

1. To turn the Indicator off, press **ON/OFF**.

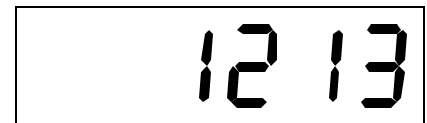


### 3.3 Using the HOLD Feature

1. To **Hold** an average weight on the display, place a load on the scale and press **HOLD/PRINT**.



2. While in the **Hold Mode**, readings are continuously averaged.



3. The average weight is then displayed and the **kg** light will flash. Any action on the scale is now ignored and the load can be removed without affecting the averaged weight.

Note: If weighing in kilograms, the **lb** light will flash.



4. To exit **Hold Mode**, press the **HOLD/PRINT** key.



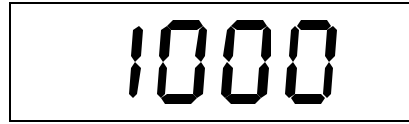
5. The indicator returns to the **Normal Weighing Mode** and the current weight is displayed. The **kg** light stops flashing.

Note: If weighing in kilograms, the **lb** light will stop flashing.



### 3.4 Changing Weighing Units

1. While in the **Normal Weighing Mode**, the current **Weighing Units** are indicated by the **lb** or **kg** light.
2. To change the current **Weighing Units**, press **lb/kg**.
3. The **lb** and **kg** lights switch states.
4. The weight display now reflects the new **Weighing Units**. The decimal point and display resolution settings will also change to reflect the new **Weighing Units**.



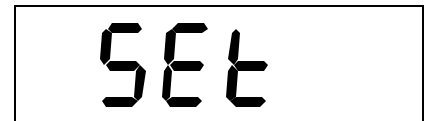
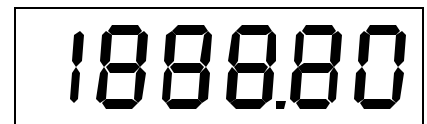
## 4. Setup Mode

The indicator has a **Setup Mode** that allows the default units, decimal point and count by settings to be set. In most situation, the indicator will have been fully configured at the factory.

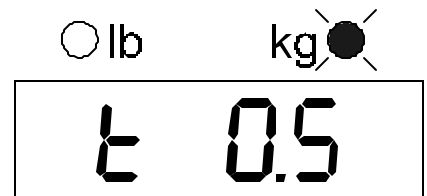
**Note: Be sure to read and *fully understand* the directions before making *any modifications* to the indicator setup, failure to do so may render the indicator *inoperable*.**

### 4.1 Entering Setup Mode

1. To enter the **Setup Mode**, start with the indicator powered off. Press and hold **ON/OFF** until the display indicates **Set**.



2. The current setting is displayed.



### 4.2 Exiting Setup Mode

1. To exit the **Setup Mode**, press **ON/OFF**.

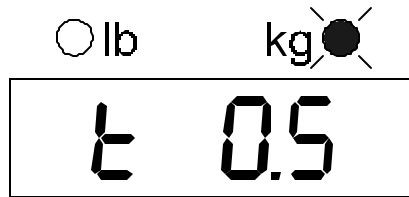


The Indicator will return to the **Normal Weighing Mode** and display the current weight.



### 4.3 Scrolling Through Settings

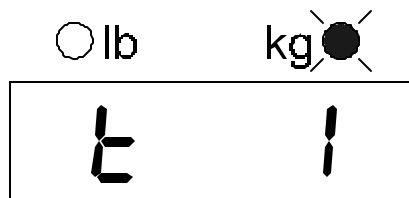
1. The current setting is displayed immediately after entering the **Setup Mode**.



2. Press **ZERO** to display the next setting.

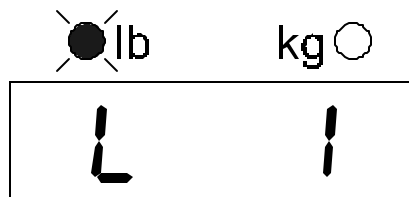


3. The next setting is displayed.

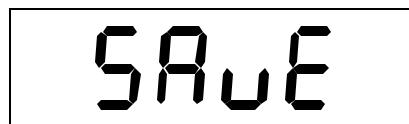


### 4.4 Saving Setup Information

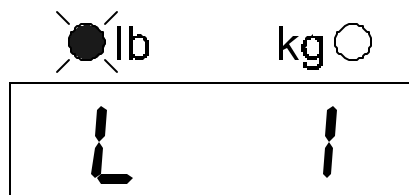
1. To save the currently displayed configuration as the default.



2. Press **HOLD/PRINT**.



3. The new default setting is displayed.



## 5. RS-232 Serial Port (Optional)

When the optional RS-232 Serial Port is installed, the Indicator can transfer weight information to a computer or serial printer. It can also receive keypad commands from a computer. The RS-232 port configuration is fixed at 8 Data bits, No parity, 1 Stop bit, and 9600 bps.

When in the **Hold Mode**, the weight displayed is also transferred out the serial port. The weight is transferred in the following format:

+1400.0 kg

**Table 1 - Output String Field Format**

Field Name	Contents	Width
Polarity	“+” or “-”	1
Weight	Average weight	5 or 6 (if decimal point enabled)
Units	“lb” or “kg”	3 (includes preceding space)

## 6. Limited Warranty

This warranty applies to all new equipment manufactured by RELIABLE SCALE CORPORATION except when otherwise specified in the Terms of Sale. Warranty is subject to the following terms and conditions:

- All new products are warranted for a period of twelve (12) months from the date of final sale to the end user (maximum 24 months from date of manufacture).
- RELIABLE SCALE CORPORATION shall at its option, repair or replace or refund the purchase price, within a reasonable period of time, after being notified of the alleged defect and after acknowledging that a defect does in fact exist.
- Warranty claims must be submitted in writing by mail, fax or email to RELIABLE SCALE CORPORATION within the warranty period.
- This warranty does not extend to any consequential damage of other equipment, loss of use, commercial or economic loss or inconvenience prior to or during the repair period.
- RELIABLE SCALE CORPORATION is not responsible for any damage or defects caused by misuse, negligence, neglect, modification, improper operation, improper maintenance, or repairs by any unauthorized persons.
- This is the sole warranty applicable to RELIABLE SCALE CORPORATION'S products, and no RELIABLE SCALE CORPORATION employee, agent or dealer has any authority to add to this warranty whatsoever.
- Products for warranty repair must be returned to the factory freight prepaid by the customer. RELIABLE SCALE CORPORATION is not liable for any cost related to removal, replacement, or shipping of the products or any other associated equipment.

Batteries supplied in or with RELIABLE SCALE CORPORATION products are NOT covered by this warranty.