

***DORAN***

***Model 8000XL*** 

**Digital Scale**

**Digital Weight Indicator**

***Model 8000XLM*** 

**OPERATOR MANUAL**

DORAN SCALES INC.

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***Made in USA***

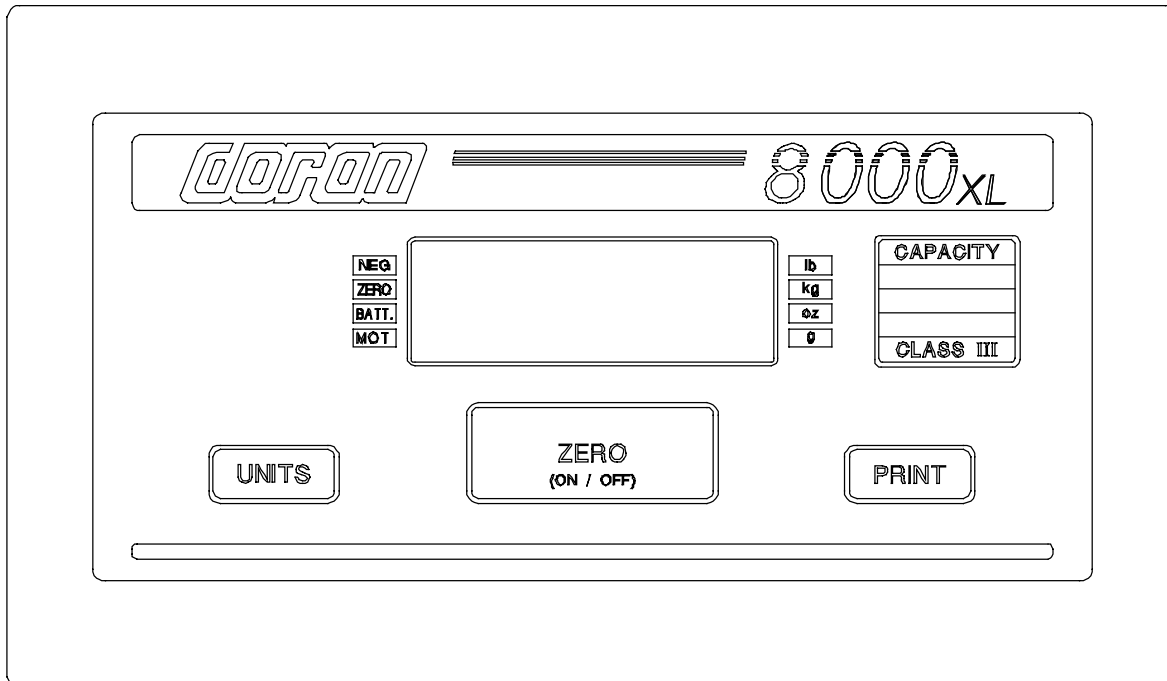
# INTRODUCTION

Introducing the Doran Scales, Inc. Model 8000XL Scale and Model 8000XLM Digital Weight Indicator. This scale uses state of the art technology to provide you with a low cost solution to the most demanding weighing applications. With ease of use and setup in mind, the scale is simple to set up and ready to use. The Model 8000XL offers many features. A few of these features are listed below:

- NTEP certification for Class III installations to 10,000d on 8000XLM.
- 60 hour of battery operation, with built in charger.
- A six digit, 0.56" red LED display for easy reading.
- lb, kg, oz, g, lb-oz display units supported.
- Fully configurable duplex printer port with RS232 support.
- EEPROM nonvolatile data storage of all calibration and setup information.
- Microprocessor monitoring system to prevent indicator failure under severe fault conditions.
- Support for up to four 350 ohm load cells.
- 115/230 VAC 50/60 Hz (jumper selectable) operation.
- Field selectable digital filtering.
- Software configurable remote push-button support (Optional).
- Non NTEP parameters are user configurable.

Please be sure to read the entire manual to ensure obtaining all the benefits that the Model 8000XL can provide. If any questions arise, please feel free to contact the Doran Scales Technical Support Department at 1-800-262-6844.

## Quick Start User's Guide



**8000XL Front Panel Layout**

### **Power Up:**

Press and release ZERO to turn on the 8000XL scale.

### **Basic Weighing Operation:**

- 1) Remove all items from the scale platter.
- 2) Press ZERO to zero the scale. The weight display should now read zero.
- 3) Place an item on scale platter and wait for the motion (MOT) indicator to go out, indicating a stable weight.
- 4) Read the weight on the scale display.

### **Turn Off:**

- 1) To turn off manually, press and hold the ZERO push button until the display shows "rel Pb." Then release, the ZERO button and, the indicator will turn off, or...
- 2) Indicator will turn off automatically at the end of the programmed power on time delay when that mode is selected.

### **Controls and Display Operation:**

The operational controls for the Model 8000XL consist of the ZERO (on/off), PRINT and UNITS buttons. A six digit LED display is used to provide weight indications and operator messages describing scale operation. Scale status such as motion (MOT), polarity (NEG), center of zero (ZERO), and low battery (BATT)

are displayed on annunciators located to the left of the display area. Scale units are indicated on four annunciators located to the right of the main weight display.

### **ZERO:**

The ZERO button is used to zero the scale prior to making a reading. The ZERO button can function over the full range of the scale or it can be limited to a zero band equal to  $\pm 1.9\%$  of scale capacity for Canadian applications. To zero the scale, wait until the scale is stable and press the ZERO button. The scale will zero immediately. The scale will not "zero" if the scale is in motion.

### **UNITS :**

The UNITS button permits the operator to change the 8000XL display weight units easily. Simply press the UNITS button and the scale will indicate the correct weight in the new units, lb, kg, g, oz, lb-oz.

### **PRINT:**

The PRINT button permits the operator to print the current weight or send a data stream to an external device. Like the ZERO button, the user must wait for motion to stop before pressing the PRINT button. The current weight will then be transmitted to the printer or external device.

### **Battery Operation:**

The 8000XL is internally equipped with a self-contained rechargeable, sealed, gelled-electrolyte battery and charging circuit. The 8000XL is designed to run continuously for 60 hours on a fully charged battery with one 350 ohm load cell.

The built-in charging circuit will fully charge the battery in approximately four hours. To charge the battery, simply plug the line cord into a standard 115V (230V optional) wall outlet.

The 8000XL can be used while recharging the battery. A full recharge takes place in four hours, whether the 8000XL is on or off. The 8000XL can be used with the AC charger cord plugged in on a continuous basis.

If an AC power failure occurs, the 8000XL battery takes over immediately to provide uninterrupted scale operation for up to 60 hours.

### **Low Battery Indication:**

The "BATT" indicator indicates that the battery is in need of recharging. Once the "BATT" indicator turns on, there will be approximately one more hour of battery life before the scale shuts down. When the battery is too low to run the scale, the 8000XL simply turns off and will not operate again until the battery is recharged. The 8000XL remains accurate and useable even with the "BATT" on.

**Note:** Battery life can vary depending on the following:

1. The number of load cells connected to the indicator.
2. The operating temperature.
3. Whether or not the battery is fully charged after each low battery event.

## **Installation:**

When installing a model 8000XL scale, locate the desired position for the scale platform and indicator. The platform location should be flat, level and free of any obstructions which might interfere with the operation of the scale platform. Remove the platter and locate the bubble level inside the base. Adjust the four scale feet so the bubble is centered with the base stable so it does not rock.

When installing your scale, make sure that the power connection is close to the scale and easily accessible.

To mount the indicator to a wall, shelf, or counter, remove the "U" bracket from the indicator by removing the two black knobs and washers. Use the two slotted "keyholes" in the bracket as a template and mark the location for the mounting holes. Drill two pilot holes for #8 screws at the marked locations. If mounting the unit on drywall, drill the holes large enough to permit the use of wall anchors capable of supporting a weight of 30 lb or more. Using two #8 screws, attach the "U" bracket to the mounting surface, making sure that the slot portion of the "keyhole" is pointed up.

Place the metal/rubber washers on the case studs with the rubber against the case. Insert the left case stud into the left "U" bracket hole. Now gently spread the sides of the "U" bracket apart and insert the right case stud into the right hole. Loosely thread the two knobs back onto the studs. Adjust the indicator to the desired viewing angle and tighten down the knobs to hold it in position. If the indicator is attached to the platform with the optional "E" brackets, place the scale on a flat level surface free from any obstructions which might interfere with the operation of the scale platform. Level the base as described above.

## **Electrical Connections:**

Prior to connecting your scale to power, check the serial number tag on the indicator for the correct operating voltage. Verify that the power you connected the scale to matches the rated voltage.

Be sure the AC power is not excessively noisy - this can occur if large inductive loads, such as solenoids or motors, are on the same power line. The Model 8000XL has a filtered power supply to reduce the effects of normal line noise, but they cannot limit severe fluctuations. If problems occur, noise producing devices may have to be suppressed to minimize their effect.



***Model 8000XL***

***Model 8000XLM***

## **LIMITED WARRANTY STATEMENT**

DORAN SCALES, INC. warrants its products to be free from defects in material and workmanship for a period of two (2) years from date of shipment. Any product found to be defective within this time period may be returned to DORAN's factory, freight prepaid, with prior return authorization for repair or replacement at no charge.

DORAN's liability under this warranty is limited to the repair or replacement of the defective product and in no event shall DORAN be liable for consequential or indirect damages to equipment or personnel. Nor shall DORAN be liable for damages to equipment or for personal injury caused by misuse, overload, accidental damage, alteration, improper installation, or unauthorized opening of the equipment. Under no circumstances will DORAN be responsible for any indirect or consequential damages due to errors in weighing or failure of a DORAN product to perform properly.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THIS WARRANTY CONSTITUTES DORAN'S EXCLUSIVE WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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