doran

Model 4100XL

Digital Scale

OPERATOR MANUAL

Made in USA

Unpacking Your Scale

Before unpacking your Doran scale, please read the instructions in this section. Your new scale is a durable industrial product, but it is also a sensitive weighing instrument. Normal care should be taken when handling and using this product. Improper handling or abuse can damage the scale and result in costly repairs that may not be covered by the warranty. If you notice any shipping damage, notify the shipper immediately. Please observe the following precautions to insure years of trouble free service from your new scale.

- DO NOT drop the scale.
- DO NOT immerse the scale.
- DO NOT drop objects on the scale.
- DO NOT pick up the scale by the "spider."

Carefully remove the scale from the shipping carton. Be sure to retain all shipping materials in case the scale must be shipped elsewhere.

Setup and Installation

INSTALLATION:

Locate the desired position for the scale. The scale location should be flat, level and free of any obstructions, which might interfere with the operation of the scale.

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

Place the scale on a flat level surface free from any obstructions, which might interfere with the operation of the scale.

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 connect 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 4100XL 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.
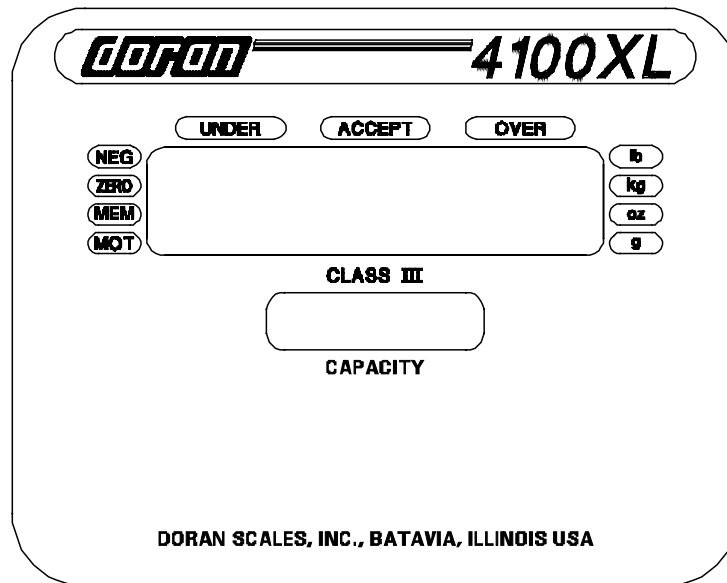
INTRODUCTION

Introducing the Doran Scales, Inc. Model 4100XL Digital Scale. 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 4100XL offers many features. A few of these features are listed below:

- NTEP certification for Class III installations to 5,000d.
- 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.
- 115/230 VAC 50/60 Hz (jumper selectable) operation.
- Field selectable digital filtering.
- Software configurable remote push-button support (Optional).

Please be sure to read the entire manual to ensure obtaining all the benefits that the Model 4100XL 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

4100XL Front Panel Layout

Power Up:
Connect scale to a compatible power source.

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.

CheckWeighing Operation:
1) Place desired target weight on scale platter.
2) Press ZERO to zero the scale. The weight display should now read zero.
3) Remove target weight from scale platter.
4) Place an item on scale platter, and note the status of the UNDER, ACCEPT, OVER indicators.
5) The OVER (red) light will indicate when the item's weight is greater than the Checkweigh band limit.
6) The UNDER (yellow) light will indicate when the item's weight is less than the Checkweigh band limit.
7) The ACCEPT (green) light will indicate when the item's weight is within the Checkweigh band limit.

Controls and Display Operation:

The operational controls for the Model 4100XL consist of the ZERO with optional PRINT and or 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), and center of zero (ZERO) 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 (optional):

The UNITS button permits the operator to change the 4100XL 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 (optional):

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.

Model 4100XL

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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