IQ9500

Counting Scale

Version 6.2d

Installation Manual

RICE LAKE WEIGHING SYSTEMS

Industrial Solutions on a Global Scale®

ISO 9001 REGISTERED

53785

Contents

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About This Manual

This manual contains operating procedures for the IQ9500 counting scale and provides the user with all the information necessary for set up and operation.

This manual is organized based on the procedures you will likely follow when setting up and using your counting scale.

Warning *Some procedures described in this manual require work inside the scale base. These procedures are to be performed by qualified service personnel only.*

Authorized distributors and their employees can view or download this manual from the Rice Lake Weighing Systems distributor site at www.rlws.com.

The *Operator Card* included with this manual provides basic operating instructions for users of the IQ9500. Please leave the *Operator Card* with the scale when installation and configuration are complete.

1.0 Introduction

The IQ9500 counting scale (Figure 1-1) offers practical solutions for a full range of precision counting applications. Models with an internally mounted load cell are available in capacities of 0.5 to 100 pounds. Models with external platforms are available in capacities of 5.0 to 50,000 pounds. Features include 200 item code storage, over/under weight and quantity checking capability based on programmable setpoints, and an optional battery power for standalone applications.

1.1 Unpacking and Inspection

Immediately after unpacking, visually inspect the IQ9500 to ensure all components are included and undamaged. If any were damaged in shipment, notify Rice Lake Weighing Systems and the shipper immediately.

Ensure all accessories are removed from the cartons, then replace all packing materials in the cartons and store in a safe place. Use the original cartons whenever shipment of the scale is required.

1.2 Repacking

If the IQ9500 counting scale must be returned for modification, calibration, or repair, it must be properly packed with sufficient cushioning materials and the load cell must be installed to prevent damage to the load cell (see Section 2.1).

Whenever possible, use the original carton when shipping the IQ9500. Damage caused by improper packaging is not be covered by warranty.

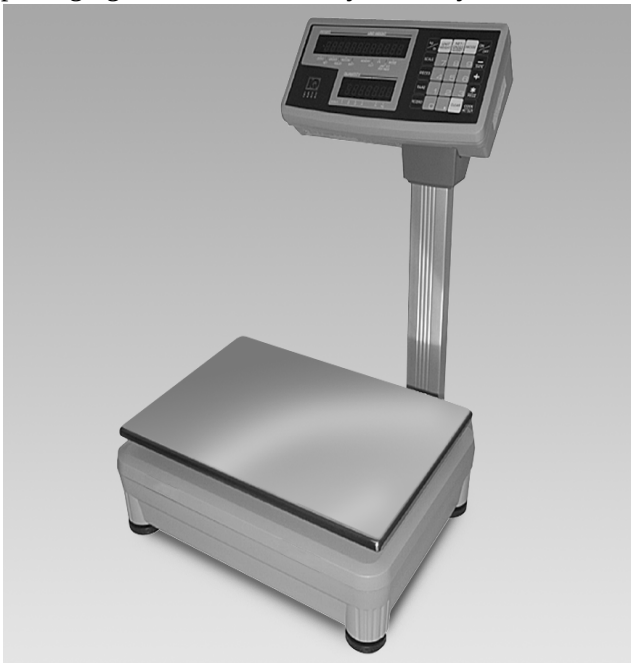

Figure 1-1. IQ9500 Counting Scale with Optional Pole Mount Assembly

1.3 Front Panel

Figure 1-2 shows a diagram of the IQ9500 console with annunciators and numeric keypad. A description of the annunciators is included in Section 1.4 and Section 1.5 has the IQ9500 keypad and a functional description of each key.

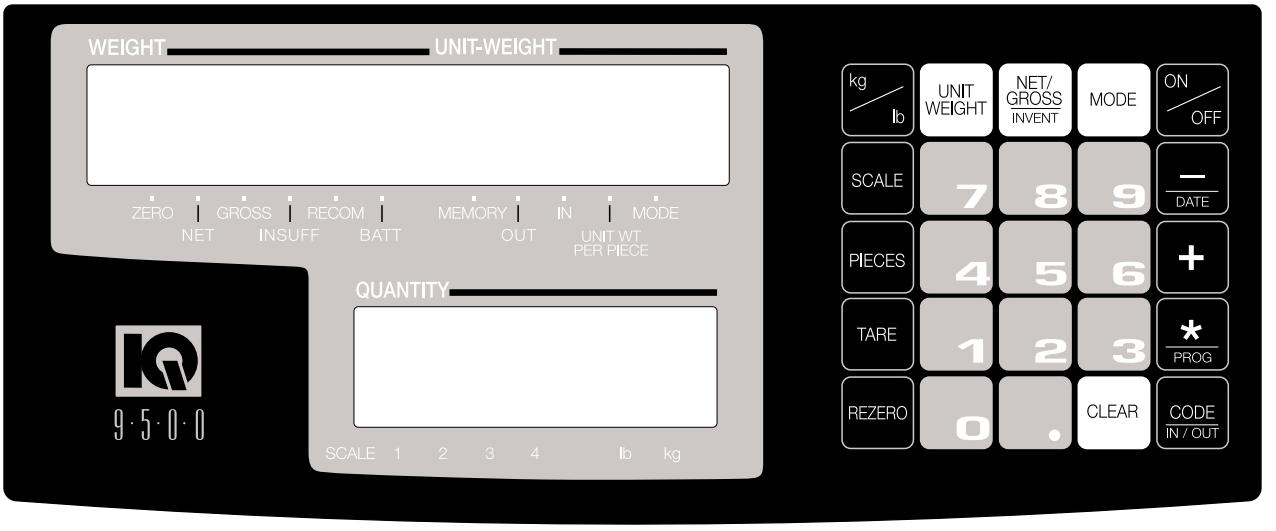

Figure 1-2. IQ9500 Keypad and Displays

1.4 Annunciators

Table 1-1 shows a list of the 17 annunciators that the IQ9500 uses to provide additional information about the value being displayed. The annunciators are illuminated when the specific function is being performed.

Annunciator	Annunciator Meaning
ZERO	Gross weight is zero.
NET	Display shows net weight (when tare weight is entered or recalled).
GROSS	Display shows gross weight.
INSUFF	Net weight below a specific percentage of scale capacity.
RECOM	Unit weight recomputing is possible.
BATT	Battery power level is low.
MEMORY	Quantity being accumulated or memory overflow error.
OUT	Inventory out.
IN	Inventory in.
UNIT WT PER PIECE	UNIT-WEIGHT display value is equal to the weight of one piece not 1000 pieces. Otherwise, referred to average piece weight (A.P.W.).
MODE	In programming mode.
lb	Item weighed in lb unit with kg/lb key pressed.
kg	Item weighed in kg unit with kg/lb key pressed.
SCALE 1	Values shown in the WEIGHT, UNIT-WEIGHT, and QUANTITY displays are for Scale 1.
SCALE 2	Values shown in the WEIGHT, UNIT-WEIGHT, and QUANTITY displays are for Scale 2.
SCALE 3	Values shown in the WEIGHT, UNIT-WEIGHT, and QUANTITY displays are for Scale 3.
SCALE 4	Values shown in the WEIGHT, UNIT-WEIGHT, and QUANTITY displays are for Scale 4.

Table 1-1. IQ9500 Panel Annunciators and Function

1.5 IQ9500 Keypad

Table 1-2 list the description of the IQ9500 keypad (see Figure 1-2 on page 2).

Key	Description
0 through 9	Used to enter numeric values. When using the scale, first enter a numeric value, then press the appropriate function key.
CLEAR	Clears keyed-in data from the display starting with the last digit entered or clears keyed-in data all at once (depends on SPEC 6, bit 2 setting). In normal weighing mode, can be used to clear the unit weight with a unit weight already entered. When using a recalled item code, press CLEAR to clear both the unit weight and the tare weight.
.	Used to enter numeric values containing a decimal point. NOTE: A numeric value must be entered before the decimal point. For example, .250 would be entered as 0.250. In normal mode, pressing the decimal key without entering a numeric value allows you to recall an item code from memory using the Teraoka Code.
MODE	Used to enter the program mode. The *MODE* annunciator is illuminated when the scale is in program mode and the WEIGHT display reads *ProG*. The quantity display shows the letter *C* and the number of item codes in memory.
REZERO	Used to reset the scale to zero. Also used in conjuction with other keys to enter the maintenance mode. The REZERO key will not function when the scale is in motion.
TARE	Used to set and clear tare weights in the normal weighing mode.
PIECES	Used to compute unit weight by sampling. Press the PIECES key after placing a 10-piece sample on the platform, or after using the numeric keypad to enter the sample size. On multichannel units, ensure the correct scale must be selected.
kg / lb	Switches display between pound (lb) and kilogram (kg). The scale powers up in the pound mode.
NET/ GROSS INVENT	Switches between net weight and gross weight display modes. Also used as an inventory key (depends on SPEC 2, bit 0 setting).
ON / OFF	Powers the scale on or off.
– DATE	Used to operate the reduction function and to move between specification numbers (high to low) in SPEC setting mode. Also used to program part number in programming item codes. In programming mode, it can be used for viewing or setting date/time.
+	Used to operate the accumulation function and to move between specification numbers (low to high) in SPEC setting mode. Also used to program set points in programming item codes.
* PROG	Used to store specification data in SPEC setting and program modes. Also used as a print key to transmit weight information.
CODE IN / OUT	Used to recall item code data and to switch between item code inventory IN and OUT modes. Also used to program commodity name in programming item codes.
SCALE	Used to cycle between Scales 1 through 4.
UNIT WEIGHT	Used to enter a known unit weight using the numeric keypad.

Table 1-2. IQ9500 Keypad Keys and Functional Descriptions

2.0 Installation

This section describes the procedure for the installation and setup of the IQ9500 counting scale.

2.1 Locking and Unlocking

Caution *Do not turn scale upside down. Always work with scale on its side! Damage to the load cell can occur if the scale is turned upside down.*

The IQ9500 counting scale is delivered in a locked position to prevent damage to the load cells during shipment.

Caution *To prevent damage to the load cells, scale must be locked prior to shipment.*

The scale uses either one setscrew for the single-platform scale or two setscrews for the dual-platform scale. The setscrews are located on the bottom of the base and must be removed before the scale is put into service. Use the following procedure to unlock your IQ9500 counting scale.

1. Turn scale on side. Loosen locknut 1/4 turn (see Figure 2-1).

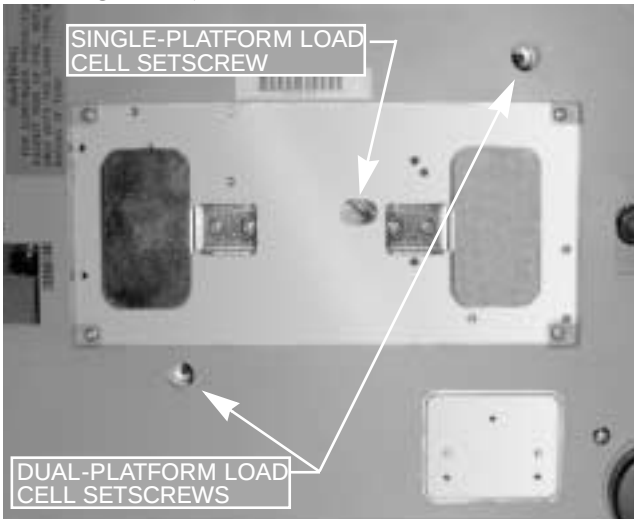

Figure 2-1. Location of Load Cell Setscrews for Single- and Dual-Platform Scales

2. Remove load cell setscrew (see Figure 2-2) using the 2 millimeter hex wrench provided with scale.

NOTE: *Keep locknut in the approximate original position on the setscrew to prevent damage to load cell when reinstalling.*

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Figure 2-2. Setscrew Removal

3. Tape setscrews to the bottom of the scale or store in a safe location for possible future use.

2.2 Scale Resolution

Counting scales specify two types of resolution:

- Weight (or external) resolution
- Counting (or internal) resolution

Weight resolution is displayed in increments of the full scale capacity which is divided into weight increments. For example, a 5-lb scale divided into 10,000 display divisions would display weight with 0.0005 lb divisions (10,000 divisions x 0.0005 lb = 5.0 lb).

Counting resolution is based on the internal resolution of the scale. The weight and counting resolutions for the IQ9500 single- and dual-platform capacities are found in Table 2-1, Table 2-2, and Table 2-3.