7.0 MULTI-MODE INTERFACE

To use this interface the simulator MUST be set on #7 upon power up and then the desired weight can be selected. The Multi-Mode cell is a high resolution cell and the table for the output weight is the same as standard DLC output.

In this mode the "RTS" and "CTS" lines are not used.

8.0 ERRORS

If the "FAIL" LED comes on, the simulator failed the memory check or the protocol with the selected interface is not working.

TABLE 1:

A. Low Resolution

0 =	7000 Increments
1 =	23000 Increments
2 =	39000 Increments
3 =	55000 Increments
4 =	71000 Increments
5 =	87000 Increments
6 =	103000 Increments
7 =	119000 Increments

B. High Resolution

8 =	27000 Increments
9 =	127000 Increments
10 =	227000 Increments
11 =	327000 Increments
12 =	427000 Increments
13 =	527000 Increments
14 =	627000 Increments
15 =	727000 Increments

OPERATION MANUAL

LOAD CELL SIMULATOR

Part Number 134460 00A

(0917-0178)

Printed in U.S.A. 1989 OM 00DLCS I01

Table of Contents

1.0 FEATURES

- **A.** 8431 Digital Loadcell Simulator without printer output.
- **B.** XX38 Digital Loadcell Simulator without printer output.
- **C.** Multi-Mode Loadcell Simulation.
- **D.** Standard CMOS Digital Loadcell Simulation.
- **E.** Select LOW (position 0-7) or HIGH (position 8-15) Resolution
- **F.** Select steps in either LOW or HIGH range.
- **G.** LED's provide visual indicator of "POWER", "RXD", "CTS" functions with a red signal indicating good operation. (Input lines).
- **H.** Yellow LED indicates system FAILURE. (Simulator status line)
- **I.** Green LED indicates PASS or good operation with simulator. (Simulator status line) (RAM test OK)

2.0 GENERAL INSTRUCTIONS

The digital load cell simulator has been designed as a tool to use for checking product which has been installed and calibrated and has failed in service.

Remove the power. Access the load cell connector. Plug the load cell cable into the correct port for the load cell under test. If you are testing an 8431, preset the front panel rotary switch to 15. If you have a multi-mode load cell preset the switch to 7. Otherwise ignore the switch settings.

Apply power to the unit. The power LED should turn on. The unit goes through a power on test routine. Within a few seconds the fail LED will go out and the pass LED will light indicating that all is well to proceed with the test.

Select various numbers (0-15) and observe the indicator. When in the correct range the indicator should provide a change in the information, thus verifying that the indicator is "OK".

3.0 CMOS DLC INTERFACE

For this application the standard digital load harness from the scale can be plugged into the DLC plug and output weight can be selected from Table 1.

In this mode the "RTS" and "CTS" lines are used.

4.0 8431 INTERFACE

To use the 8431 interface, the simulator must be set on #15 upon power up and the standard 8431 harness must be installed in the "8431" location. The weight can be selected via the front panel switch on the simulator. Upon power up, the 8431 will display all eights and then will display "Digital Loadcell Tester" and after 2 seconds the weight and the unit price and the total price will be displayed. The keyboard can be tested by pressing each key and the display will show the text for that key.

5.0 XX38 INTERFACE

To use XX38 interface, install the harness in the "XX38" location. The weight can be selected via the front panel switch on the simulator. Upon the power up, the XX38 will display all eights and then will display the selected weight. The keyboard can be tested by pressing each key and the display will show the text for that key.

6.0 1938/2038/2138 EXAMPLE

- **A.** Start with power off. Must be "A" revision or up.
- **B.** Remove load cell cable from load cell and attach to load cell simulator.
- **C.** Apply power by holding On/Off switch until the fail LED goes out.
- **D.** All segments will light upon power up, then all will blank. Weight will then be displayed.
- **E.** Weight indicated will be as in Table 1 with the value divided by 10.
- **F.** Keyboard may now be tested and should display the text for each key.