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## 1310 Specifications

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<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Input</strong></td>
<td>Universal 85-265 VAC, 50/60Hz, 75VA</td>
</tr>
<tr>
<td><strong>Excitation</strong></td>
<td>10 Volts DC or 10 volts AC square wave capable of driving up to thirty-two 350-ohm weight sensors. Indicator is also capable of driving Quartzell™ transducers</td>
</tr>
<tr>
<td><strong>Operational Keys</strong></td>
<td>Zero, Tare, Print, Units, Select, Enter, Escape, Clear, 0-9/Alpha, Decimal Point and Five Soft Keys labeled per selected operational routine.</td>
</tr>
<tr>
<td><strong>Operational Annunciators</strong></td>
<td>Displayed symbols indicate motion, center of zero, unit of measure and more.</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>Model 1310—Dot graphic display, 5”W x 1.33”H provides images and up to eight lines of weight and/or text. 240 x 64 dots cold cathode fluorescent backlit, white on blue.</td>
</tr>
<tr>
<td><strong>Display Characters</strong></td>
<td>Application defined. 1.16” to 0.145” high.</td>
</tr>
<tr>
<td><strong>Display rate</strong></td>
<td>Selectable, from 1 in 10 seconds to 10 times per second</td>
</tr>
<tr>
<td><strong>A to D Conversion Rate</strong></td>
<td>60 times per second</td>
</tr>
<tr>
<td><strong>Unit of Measure</strong></td>
<td>Pounds, kilograms, grams, ounces, pounds and ounces and four programmable custom units</td>
</tr>
<tr>
<td><strong>Capacity Selections</strong></td>
<td>Up to 10,000,000 selectable</td>
</tr>
<tr>
<td><strong>Incremental Selections</strong></td>
<td>Multiples and sub multiples of 1, 2, 5</td>
</tr>
<tr>
<td><strong>Decimal locations</strong></td>
<td>88888888 pick any location relative to division size</td>
</tr>
<tr>
<td><strong>Displayed Resolution</strong></td>
<td>Up to 1 part in 10,000,000</td>
</tr>
<tr>
<td><strong>Audio Output</strong></td>
<td>Audio tone for key contact assurance or operational alarms</td>
</tr>
<tr>
<td><strong>Time and Date</strong></td>
<td>Battery protected real time clock is standard</td>
</tr>
<tr>
<td><strong>Internal Resolution</strong></td>
<td>1,000,000 counts analog, Quartzell™ transducer higher</td>
</tr>
<tr>
<td><strong>Harmonizer™ digital filtering</strong></td>
<td>Fully programmable to ignore noise and vibration</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>128K (expandable to 8MB)</td>
</tr>
<tr>
<td><strong>Standard input and outputs</strong></td>
<td>Com 1: RS232, RS-485/422, Quartzell™, SensorComm™</td>
</tr>
<tr>
<td></td>
<td>Com 2: RS232, 20 mA current loop</td>
</tr>
<tr>
<td></td>
<td>Com 3: RS232, RS-485/422, Quartzell™, SensorComm™</td>
</tr>
<tr>
<td></td>
<td>Com 4: RS232, RS-485/422, Quartzell™, SensorComm™ (One bi-directional signal per port)</td>
</tr>
<tr>
<td></td>
<td>Four set point I/O ports via OPTO 22 I/O modules</td>
</tr>
<tr>
<td></td>
<td>1 Analog scale input</td>
</tr>
<tr>
<td></td>
<td>PS/2 Keyboard port</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>7.25” H x 11” W x 8.25” D (184 mm x 279 mm x 205 mm)</td>
</tr>
<tr>
<td><strong>Available Options</strong></td>
<td>Multiple analog scale inputs, up to seven additional (16-Bit D/A)</td>
</tr>
<tr>
<td></td>
<td>Eight fully isolated, programmable analog outputs (selectable 0-20mA, 0-24mA, 4-20mA, 0-5VDC, 0-10VDC, ±5VDC, ±10VDC)</td>
</tr>
<tr>
<td></td>
<td>Remote expanded control interface for TTL or solid state up to 64</td>
</tr>
<tr>
<td></td>
<td>OPTO 22 Generation 4 I/O Modules</td>
</tr>
<tr>
<td></td>
<td>Internal modem</td>
</tr>
<tr>
<td></td>
<td>Memory Expansion - 1, 4, 5, 8 MB (battery backed SRAM)</td>
</tr>
<tr>
<td></td>
<td>PC (AT) style alphanumeric keyboard</td>
</tr>
<tr>
<td></td>
<td>Up to sixteen pulse counter inputs</td>
</tr>
<tr>
<td></td>
<td>SensorComm™ Digital j-box</td>
</tr>
<tr>
<td></td>
<td>Traxle™ total truck and axle weighing</td>
</tr>
<tr>
<td><strong>Fieldbus Network Interfaces</strong></td>
<td>Device Net™, ProfiBus®, ControlNet™, InterBus, ModBus Plus, Ethernet 10/100 (ModBus TCP, TCP/IP (sockets), HTTP, SMTP, FTP, EtherNet/IP)</td>
</tr>
<tr>
<td><strong>Operating Temperatures</strong></td>
<td>NTEP 14 to 104° F (-10 to 40° C), 10 to 90% relative humidity</td>
</tr>
<tr>
<td><strong>Enclosure</strong></td>
<td>Stainless steel wash down enclosure NEMA 4X</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>17 lb, 7.7 kg</td>
</tr>
<tr>
<td><strong>Agencies</strong></td>
<td>NTEP Class III/III:10,000d CC# 01-033 A1</td>
</tr>
<tr>
<td></td>
<td>FCC Class A</td>
</tr>
</tbody>
</table>
About This Manual

Configuration file name is 14835_0D.310

Introduction

This manual covers the information you need to understand the operation of your Model 1310 indicator with the Truck In/Out application installed. Major sections of this manual are headed by titles in a black bar like Introduction above. Subheadings appear in the left column. Instructions and text appear on the right side of the page. Occasionally notes, tips, and special instructions appear in the left column.

1310 Indicator

The 1310 is a stand alone or network capable weight indicator and process controller. Built into the 1310 are the following standard features:

- 4 serial ports
- Time
- Date
- Stainless steel enclosure
- Large graphic display

The 1310 front panel is shown in Figure 1. The front panel includes the following:

- Dot graphic display, 5"W x 1.33"H provides images and up to eight lines of weight and/or text. 240 x 64 pixel cold cathode flourescent backlit, white on blue
- Five variable function soft keys (F1-F5)
- Alphanumeric keypad
- SELECT key
- UNITS key
- PRINT key
- TARE key
- ZERO key
- C (Clear) key, Power Off/On
- ESC (Escape) key
- ENTER key
- Decimal point key
1310 Front Panel

Plug the 1310 into an easily accessible grounded outlet only. Never use the unit without an appropriate earth-ground connection.

Any computer based system should have a separate, grounded power circuit. We recommend one for the 1310.

A power surge suppression unit is recommended between the 1310 and AC outlet.

Main Display

The main display is a 240 x 64 dot, dot-addressable, vacuum fluorescent display. The ability to address each of the dots individually makes this display nearly as versatile as a computer screen. It can display graphics, words and numbers. This flexibility allows graphics and alphanumeric characters to be displayed at the same time.

To increase the contrast of the display, press and hold the DECIMAL POINT and 7 keys until the desired contrast is reached. To decrease the contrast of the display, press and hold the DECIMAL POINT and 1 keys until the desired contrast is reached.

Front Panel Keys

The keys on the front panel of the 1310 are of two types, hard keys and soft keys. Hard keys are labeled directly and soft keys are labeled F1-F5. If a soft key has a function, its label appears at the bottom of the display. Soft keys function differently at different times and their labels change as needed.

Below are brief descriptions for each of the hard key functions:

Hard Keys

Use this key to toggle UPPER and lower case alpha characters, while entering alphanumeric characters.

Repeatedly press the SELECT key to scroll through the available weight reading displays. (Examples - gross, net, tare, minimum, maximum, etc.)

For alpha entries, this key toggles UPPER/lower case entry (if Lowercase Enable is turned on in the configuration). If lower case is selected, “abc” will appear in the upper right of the display.

Press the UNITS key to scroll through the available units of measure (lb, kg, oz, etc.).
Press the PRINT key to send data to a connected printer. By default this key performs a DOPRINT command followed by a DOACCUM command.

Press the TARE key to tare the current gross weight, then repeatedly press SELECT to scroll through the tare, gross and net weight displays.

Press the ZERO key to establish a zero reference. A center-of-zero icon will be displayed when the weight is within ¼ division of zero. During motion an M will appear below the center-of-zero icon.

Press the ESCAPE key to back out of menus or cancel a numeric entry without accepting the value. Press and hold the ESCAPE key for 3-5 seconds to gain access to Password Entry Mode.

Press the C(Clear) key to clear values from the display prompts. Press and hold the C key for five seconds to power down the indicator.

Press the ENTER key to enter a keyed in value or accept a displayed choice.

If a display appears in which alpha or numeric characters can be entered, key function switches automatically so that repeated pressing of one key causes the number to appear first followed, by the alpha characters in descending order as labeled on the key. If you wait for the cursor to appear on the display and press a key, a new character is added to the previous one entered.

Soft keys are so-called because their function is not fixed. Function can change as mode of operations change or as the program for your particular setup changes.

There are five predefined soft keys used in the Truck In/Out application. See Figure 1.
The Truck Scale In/Out software application installed in the 1310 allows you to automate truck weighing. You can track up to 250 different open transactions and store up to 1,000 completed transactions. You can also store up to 500 tare weights.

Serial ports are configured for transmitting information to different devices; printer, computer and remote display.

Serial Port Configuration

Serial port #1 is configured for use with dot matrix printers such as the TM-295, WP-233, or WP-234 printers. Configuration is 9600 baud, 8 data bits, no parity, no handshake, basic control mode.

Serial port #2 is configured for use with a computer. Configuration is 9600 baud, 8 data bits, no parity, no handshake, basic control mode.

Serial port #3 is configured for use with the Weigh-Tronix flip digit remote display. Configuration is 9600 baud, 8 data bits, no parity, no handshake, basic control mode.

Serial port #4 is configured for use with the Truck Weigh PC software program. Configuration is 19,200 baud, 8 data bits, no parity, no handshake, basic control mode.

Open Transaction Database

The following data is stored for each open transaction and is included in the open transaction report:

- Truck identification number (up to 16 alphanumeric characters)
- Inbound weight
- Time of inbound transaction
- Date of inbound transaction

Data stored in the databases is in calibration units.

Completed Transaction Database

The following data is stored for each completed transaction and is included in the transaction report:

- Truck identification number (up to 16 alphanumeric characters)
- Inbound weight
- Time of inbound transaction
- Date of inbound transaction
- Outbound weight
- Time of outbound transaction
- Date of outbound transaction

Tare Database

The Tare database stores up to 500 tare weights. You can print tare weight tickets using the PRINT key.

Remote Display

Serial port #3 is used to send the displayed weight to a Weigh-Tronix flip digit remote display. The data is sent 1 times/second.
Operation

Powerup

Inbound Procedure

Follow these steps to perform truck in/out operations:

1. When the indicator is powered up you will see this screen...

   ![Inbound Scale Screen](image)

2. Be sure scale is zeroed by pressing the ZERO key. After an inbound truck comes onto the scale, press the IN key...

   The inbound weight is stored in the OPEN database and the screen below is displayed.

   ![ID Entry Screen](image)

3. Key in up to 16 alphanumeric characters for the truck ID. You can enter alphanumericics in several ways.

   A) Use the CHR soft keys to scroll through the alphanumeric list and move the cursor using the ADV and PREV soft keys.

   B) Use the keypad on the 1310, following the directions for alphanumeric entry in the Front Panel Keys section of this manual.

   C) Use an optional remote keyboard to enter the numbers and alpha characters. With a remote keyboard attached, only alpha entries are allowed from the front panel keys.

   When you have entered the ID, press the ENTER key...

   ![ID Entry Confirmation](image)

   This is a friendly reminder to have a printer attached and ready to print if you want to have an inbound ticket printed.
Outbound Procedure

1. Be sure scale is zeroed by pressing the ZERO key. After an outbound truck stops on the scale, press the OUT key. . .

   The following is displayed (your display may show a currently active ID):

   ![Display Example]

   TRUCK ID: _

2. Key in up to 16 alphanumeric characters for the truck ID. You can enter alphanumerics in several ways.

   A) Use the CHR soft keys to scroll through the alphanumeric list and move the cursor using the ADV and PREV soft keys.
B) Use the keypad on the 1310, following the directions for alphanumeric entry in the *Front Panel Keys* section of this manual.

C) Use an optional remote keyboard to enter the numbers and alpha characters. With a remote keyboard attached, only alpha entries are allowed from the front panel keys.

When you have entered the truck ID, press the **ENTER** key.

![Printer Ready?](image)

is displayed.

This is a friendly reminder that if you want to have an outbound ticket printed, you must have a printer attached and ready to print.

3. Press YES if you want the ticket printed. Press NO if you don’t want the ticket printed.

   The 1310 searches the OPEN database for the ID number. If the number is not found, the display informs you of that fact and returns to the weight display.

   If the number is found, the outbound weight, date and time are stored in the transaction database and an outbound ticket is printed (if you have chosen to print the ticket). See example in Figure 2.

![Outbound Ticket](image)

**Figure 2**  
Outbound ticket sample
TARE Soft Key (F2) Function

When you are given a numbered list to choose from, press the number key on the number keypad to select your choice.

The TARE soft key functions in two ways. Method one is for new truck ID entry and Method 2 is for an existing truck ID entry. The TARE soft key allows you to add tare weights to the TARE database. You can recall, edit and delete existing tare weights.

Method 1: New Truck ID Tare Entry

1. Press the TARE soft key (F2)...

   If you press 1 to choose Enter Tare Weight, see Step 2 below.
   If you press 2 to Recall Stored Tare, see Method 2 for a known truck ID.
   If you press 3, the action is aborted.

2. When you press 1...

   TRUCK ID: __
   BKSP ↑ CHR ↓ CHR ↑ ADV ↓ ← PREV

   is displayed.

3. Key in a truck ID to store the tare weight in. This is a 16 character, alphanumeric entry. Press the ENTER key...

   If that ID already has a tare weight associated with it, the following is briefly displayed

   A TARE WEIGHT IS ALREADY STORED FOR THIS TRUCK ID NUMBER

   followed by this display:

   If Truck ID with tare value already exists in data base

If Truck ID with tare value already exists in database

If you press LIVE WT, the scale will attempt to do a tare operation. If it is successful, TARE WEIGHT STORED is displayed. If it is not successful, COULD NOT CAPTURE WEIGHT. TARE WAS NOT STORED is displayed.

Capture Live Tare Weight

Key In Tare

If you press KEY IN, go to step 4.
Method 2: Tare Entry for Existing Truck ID

1. Press the TARE soft key (F2)...

If you press 1, see Method 1.
If you press 2, go to step 2 below.
If you press 3, the action is aborted.

2. When you press 2...

is displayed.

3. Key in the known truck ID to recall the tare weight. This is a 16 character, alphanumeric entry. Press the ENTER key...

is displayed. The display returns to a net weight display with that tare value active.

If truck ID does not exist in database, no value can be recalled.
The following message is display:

TARE WEIGHT IS NOT STORED
The display then returns to the normal weighing operation screen.
To enter a tare, perform the steps in Method 1 on previous page.

See the next section to generate a print with a stored tare weight.
PRINT Key Function

The PRINT key allows you to print a tare ticket. The tare ticket includes the Truck ID, gross weight, tare weight, net weight, time and date. A example is shown in Figure 3 below.

```
TARE TRANSACTION
TRUCK ID : 12345
GROSS WEIGHT : 3485 lb
TARE WEIGHT : 60 lb
NET WEIGHT : 3425 lb
TIME: 11:58:43
DATE: 11-12-01
```

Figure 3
Tare ticket sample

CLEAR Key Function

When you are given a numbered list to choose from, press the number key on the number keypad to select your choice.

The CLEAR key allows you to delete information from one or more of the databases.

1. Press the CLEAR key.

   The following is displayed:

   `CLEAR DATABASE
   1) TRANSACTION  4) ABORT
   2) OPEN TRANS   3) ENTIRE MEMORY`

2. Press 1, 2 or 3

   You are asked if you really want to do this. If you choose NO, the display returns to the weight display. If you choose YES the database selected is cleared of all data. When you choose 3, you delete both the completed transaction and open transaction databases.

   **OR**

   Press 4

   The display returns to the weight display with no data deleted.
The **REPORT** key allows you to upload the contents of the completed or open databases to a computer through serial port 2. The reports are in a comma-delimited format.

Below is an example of the data transmitted from the open transaction database (truck ID, inbound weight, inbound time, inbound date):

```
1,3485,12:01:45,11-12-01
11,3485,12:01:51,11-12-01
111,3485,12:01:55,11-12-01
1111,3485,12:02:01,11-12-01
11111,3485,12:02:06,11-12-01
15,3485,12:02:12,11-12-01
16,3485,12:02:17,11-12-01
17,3485,12:02:21,11-12-01
89,4015,12:02:27,11-12-01
125,4486,12:02:34,11-12-01
115,3938,12:02:44,11-12-01
4589,3551,12:02:50,11-12-01
47,3551,12:02:55,11-12-01
4789,3183,12:03:07,11-12-01
789,4523,12:03:14,11-12-01
456,4263,12:03:18,11-12-01
```

Below is an example of the data transmitted from the completed transaction database (truck ID, inbound weight, inbound time, inbound date, outbound weight, outbound time, outbound date):

```
1,3485,12:01:45,11-12-01,5004,12:04:52,11-12-01
11,3485,12:01:51,11-12-01,5004,12:05:00,11-12-01
111,3485,12:02:01,11-12-01,5004,12:05:05,11-12-01
1111,3485,12:02:06,11-12-01,5004,12:05:12,11-12-01
11111,3485,12:02:12,11-12-01,5004,12:05:19,11-12-01
15,3485,12:02:12,11-12-01,5004,12:05:26,11-12-01
16,3485,12:02:17,11-12-01,5004,12:05:32,11-12-01
17,3485,12:02:21,11-12-01,5004,12:05:37,11-12-01
89,4015,12:02:27,11-12-01,5004,12:05:41,11-12-01
125,4486,12:02:34,11-12-01,5004,12:05:46,11-12-01
115,3938,12:02:44,11-12-01,5004,12:05:52,11-12-01
4589,3551,12:02:50,11-12-01,5004,12:05:59,11-12-01
47,3551,12:02:55,11-12-01,5004,12:06:01,11-12-01
4789,3183,12:03:07,11-12-01,5004,12:06:12,11-12-01
789,4523,12:03:14,11-12-01,5004,12:06:25,11-12-01
456,4263,12:03:18,11-12-01,5004,12:06:32,11-12-01
```
Accessing Software Version

The time may come when you are asked by a service technician what the software version of your software is. There is a series of key strokes which will bring that number up on the screen. Below are the instructions for accessing this information.

1. Press and hold the **ESCAPE** key until the 1310 beeps.
2. Within five seconds, key in the number 111 and press **ENTER**.
3. Press the soft key labeled **VIEW**.
4. Press the soft key labeled **VERS**. The software version will appear on the display.

Setting Time and Date

1. Press and hold the **ESCAPE** key until the Model 1310 beeps...
   The display asks for a password and looks like the example shown below:

   ![Password Setup](image)

   2. Key in 111 and press **ENTER**...
      A new soft key set appears.

   3. Press the **CLOCK** soft key to access the time and date setting function.

   4. The display shows the current hour value. If this is not correct key in a new value and press **ENTER** or press **ENTER** to accept the current value...
      The display shows the minutes value.

   5. Repeat step 4 for minutes, seconds, year, month and day. (The day of the week is calculated automatically from the four digit year.)

   6. Press the **EXIT** soft key to return to normal operating mode.
## Error Messages from SensorComm™

You may see the error messages listed in the table below. Also listed is a description of the error and possible causes. These may help with servicing. Error messages will appear in the upper right corner of the display window as shown in the example of error message #8 shown below.

![Error Message](image)

All error messages below which mention components are referring to components within the SensorComm product.

<table>
<thead>
<tr>
<th>Error #</th>
<th>Error Description</th>
<th>Description of Error</th>
<th>Possible Cause</th>
</tr>
</thead>
</table>
| 1       | Communications error | SensorComm not responding | -Cable  
- SensorComm hardware failure  
- 1310 hardware failure |
| 2       | Power fault | +Vin, +EXC, or -EXC has fallen out of tolerance. Voltage ±5%. | -Power supply failure  
- Cable |
| 3       | A to D overrange | More than +5mV/V has been applied to the A to D converter | -Cable  
- Weight sensor failure |
| 4       | A to D underrange | Less than -5mV/V has been applied to the A to D converter | -Cable  
- Weight sensor failure |
| 5       | A to D Initialization failure | A to D converter not responding | -Component failure  
- Power supply problems |
| 6       | Weight sensor overrange | The weight sensor output has exceeded the configured amount. | -Abuse of scale  
- Weight sensor failure |
| 7       | Weight sensor deadload shift warning | The output of the weight sensor is greater than a configurable percent of capacity since calibration | -Gauging problem on the weight sensor  
- Mechanical issue with the scale |
| 8       | Weight sensor deadload shift error | The output of the weight sensor has increased more than a configurable percent of capacity since calibration | -Gauging problem on the weight sensor  
- Mechanical issue with the scale |
| 9       | Weight sensor stability | The output of 1 or more weight sensor is not in the same range as the rest of the scale. | -Mechanical issue with the scale  
- Weight sensor problem |

## Error Message from the Ghost Feature

You may see an error message when the Ghost feature is enabled. The display on the left tells you that the Ghost option is functioning and that Cell X has failed.
The 1310 has an emergency help menu with a password of 911 to help you diagnose problems with SensorComm components. Following are the instructions you need to access this menu and explanations of each part of the menu that pertain to the SensorComm option. Figure 4 shows a flow chart of the soft keys in the 911 menu.

**Figure 4**
Flowchart of soft keys in the Test menu

Hold the **ESCAPE** key for 5 seconds then key in **911** at the prompt and press **ENTER**. The following is displayed:

This manual covers the information needed to use and understand SensorComm. For information on the soft keys not covered in this manual, see the 1310 Service Manual PN 29803-0016.
These softkeys appear:

**KEYPAD**  This test lets you check each front panel key for proper operation. Follow the instructions on the display.

**SCALE**  Press this soft key to view weight sensor outputs. Disabled when SensorComm active.

**SERIAL**  Use this to test your ports. Select Port #1 through 4 then short the TX and RX on the selected port. The display will change from NO LOOP to LOOP indicating the port is good. Jumper RTS to CTS to test the handshake lines.

**MORE**  Accesses the following keys:

- **INPUT**  Allows you to Activate/Deactivate any input setpoint device such as a switch or contact closure remotely and monitor it with this menu.

- **OUTPT**  Allows you to Activate/Deactivate any output setpoints to verify correct hardware operation during installation or for troubleshooting purposes.

- **DISP**  This test continuously cycles the display through a test pattern.

- **SCOMM**  Present only if SensorComm™ is active. It accesses the SensorComm diagnostics which are explained the following section, *SCOMM Soft Key*.

**MORE**  Accesses the following keys:

- **NET**  This diagnostic will only appear if a network option card is installed. Follow the instructions on the display. For more information reference the *1310 Network Installation Guide* PN29806-0013.

*Inputs and outputs have to be defined in the WT-BASIC program for them to work.*
**Modem status list:**

1 = initialize
2 = set auto answer
3 = set user config
4 = port ready
5 = dialing
6 = error
7 = connected
8 = disconnected
9 = initialize

**MODM**

Appears only if modem is enabled by a SimPoser program. The display will show Port #, Status (see list at left), User configuration information.

**TRAFF**

Press this soft key to see the System Counter Menu. This shows you the traffic, overload, and underload counter values. See example below.

```
SYSTEM COUNTER MENU:

TRAFFIC: 20
OVERLOAD: 10
UNDERLOAD: 5

UNDER OVER CLEAR DONE
```

If the scale experiences a load exceeding 105% of capacity, an overload event is logged. Press the OVER soft key to see the log of overloads. Example below.

```
OVERLOAD COUNTER LOG:

EVENT 1 OF 10
TIME: 12:50
DATE: 12-04-2002

<PREV NEXT> CLEAR DONE
```

Press the PREV or NEXT soft keys to scroll through the list of overload event times and dates. Press the CLEAR soft key to clear the displayed event.

If the scale experiences a negative weight exceeding 105% of capacity, an underload event is logged. Example below.

```
UNDERLOAD COUNTER LOG:

EVENT 1 OF 5
TIME: 01:26
DATE: 11-03-2002

<PREV NEXT> CLEAR DONE
```

Press the PREV or NEXT soft keys to scroll through the list of overload event times and dates. Press the CLEAR soft key to clear the displayed event.

The traffic counter increments when weight exceeds the configured trigger point (% of scale capacity). (See the Service Manual for configuration information.) For the next weightment to increment the counter, the weight must fall below the configured re-arm point (% of scale capacity).
Refer to Figure 4 as the soft keys and functions which apply to SensorComm are explained below.

When you press the SCOMM soft key, the following keys appear:

<table>
<thead>
<tr>
<th></th>
<th>INFO</th>
<th>OUTPT</th>
<th>ERR#</th>
<th>VOLT</th>
<th>MORE</th>
</tr>
</thead>
</table>

INFO See INFO Soft Key section.
OUTPT See OUTPT Soft Key section.
ERR# See ERR# Soft Key section.
VOLT See VOLT Soft Key section.
MORE Brings up the following keys:

<table>
<thead>
<tr>
<th></th>
<th>SIG</th>
<th>DLOAD</th>
<th>G_LOG</th>
</tr>
</thead>
</table>

SIG See SIG Soft Key section.
DLOAD See DLOAD Soft Key section.
G_LOG See G_LOG Soft Key section.

Press this key to view SensorComm and weight sensor specifications.

VERS soft key Brings up a display similar to this example:

```
SENSORCOMM#: 1
SERIAL #: 00000000
PART #: 55065-0014 REVISION: X10
< PREV DONE NEXT >
```

This display shows you the serial number, part number and software revision level of SensorComm #1. Press the NEXT or PREV soft key to other active SensorComm J-boxes.

The displays on the next few pages are illustrations of examples, not actual screen captures.
SETUP soft key  Brings up a display similar to this example:

```
SENSORCOMM CONFIGURATION:
# OF BOXES: 2
# OF SENSORS: 8
ANY KEY TO CONTINUE.
```

This display shows you the configuration of the SensorComm system. In this example the system has two SensorComm j-boxes with a total of eight weight sensors. Press any key and the following is displayed:

```
SENSOR#: 1
CAP: 5000 OUTPUT: 1.000000 MV/V
SERIAL#: 000000 SPAN: 0.000000
< PREV DONE NEXT →
```

This screen lets you scroll through all the sensors using the PREV and NEXT soft keys. Information displayed for each sensor is programmed capacity, output in mV/V, serial number and span factor.

VALS soft key  Brings up a display similar to this example:

```
CORNERING VALUES FOR SCOMM#: 1
#1: 0.949705 #2: 0.999280
#3: 1.079973 #4: 0908274
ANY KEY TO CONTINUE.
```

This display shows you the stored cornering values for each sensor attached to a SensorComm j-box. Press any key to see the next SensorComm values if there is another attached. Returns to VERS-SETUP-VALS soft key set after viewing the last set of values.

OUTPT Soft Key

Press DONE to return to the previous level display.

Press this key to view the current output of each weight sensor in raw counts or mV/V. You will see a display similar to this example:

```
SENSORCOMM#: 1 COUNTS MENU
#1: 500000 #2: 500000
#3: 500000 #4: 500000
MV V CNTS < PREV NEXT → DONE
```

This display shows you the current output in raw counts for each sensor attached to SensorComm #1. Press the PREV or NEXT soft key to move between multiple SensorComm j-box displays.

If you press the CNTS soft key, you will see a display similar to this example:

```
SENSORCOMM#: 1 MV/V MENU
#1: 0.639000 #2: 0.651000
#3: 0.653000 #4: 0.660000
MV V CNTS < PREV NEXT → DONE
```

This display shows you the current output in mV/V for each sensor attached to SensorComm #1. Press the PREV or NEXT soft key to move between multiple SensorComm j-box displays.
**ERR# Soft Key**

Press the **ERR#** soft key to see a record of the last 10 error code numbers and the dates and the times these occurred. The screen will look similar to the example below:

```
ERROR: 3 of 5
ERROR #: 1 8:30 12-28-01
- COMMUNICATION ERROR
← PREV  CLEAR  DONE  NEXT →
```

The top line tells you how many errors are in the list and which one you are viewing.

The second line shows the error number and time and date it occurred.

The third line gives you the name of the error. This corresponds to the list of errors in *Error Messages from SensorComm™*.

Press **NEXT** or **PREV** to see the entire list of error messages.

Press **CLEAR** to clear all the messages. You will be asked if you are sure and be shown **YES** and **NO** keys. If you press **NO**, the display returns to the error message screen. If you press **YES**, the display returns to the following screen:

```
TEST-MORE-SCOMM
```

```
INFO  OUTPT  ERR#  VOLT  MORE
```

If you press the **ERR#** key and there are no active errors, you will see this display:

```
NO ACTIVE ERROR
to be displayed
ANY KEY to continue
```

**VOLT Soft Key**

Press the **VOLT** soft key to see current Voltage In and Excitation voltage reports. The screen will look similar to the one below:

```
SENSORCOMM#: 1 VOLTAGE MENU
VIN: 14.99V(GOOD)  4.92V(GOOD)
EXC: -.507V(GOOD)  4.94V(GOOD)
← PREV  DONE  NEXT →
```

View other connected SensorComm j-boxes by using the **PREV** or **NEXT** soft key. Press **DONE** to return to the previous level display.
Press the **SIG** soft key to see a constantly changing display similar to the example below:

```
PACKETS TX'D: 123195
PACKETS RX'D: 122849
GOOD PACKETS: 122849
SIGNAL STRENGTH: 99.72%
```

This screen shows the number of packets of information sent to the SensorComm system and the number received back correctly. This is a measure of the relative reliability of your communication setup. If the signal strength shows a lower percentage, chances are the system is experiencing some kind of line noise and thus, less reliable communication.

Press the **DLOAD** soft key to view the deadload analysis for each weight sensor. You will see a display similar to the example below:

```
DEADLOAD ANALYSIS: SENSOR#: 1
CALIBRATION COUNTS: 575000
COUN: 569000  DIFF: 1.05%
```

This display shows the calibration counts, current raw counts and difference for sensor #1.

Press the **G_LOG** soft key to view the log of error messages concerning ghosted weight sensors. See example below.

```
ERROR: X of Y
15:48  12-28-02
CELL NUMBER: 2
```

Press the appropriate softkey to scroll through the available error messages. Time and dates of errors are displayed.

- X = active error
- Y = Number of errors
- 2 = Cell number that was "ghosted"
If your 1310 has the optional Ethernet 10/100 SMTP card installed, your system can be configured to send you an email informing you of system errors as they occur. Follow the steps below to set up your 1310 for autonotification.

1. Open SimPoser.
2. Open the standard truck IN/OUT application file.
3. Click on the **CONFIG** button.
4. Click on the **Parameters** tab.
5. Click on the **Diagnostics** button.
6. Enable *Email under Alarm Levels*.
7. Click OK.
8. Click on the **Network** tab.
9. Choose Ethernet IT from the Network Type list.
10. Click on Enable.
11. Configure the IP, SUBNET MASK, GATEWAY and SMTP IP as shown in the example below:

![Network Configuration Example](image)

12. Click File>Save.
13. Download to your 1310.
14. To configure the TO and FROM email addresses, press and hold the **ESC** key for five seconds on the 1310. Enter the password 411. A prompt will appear for the From address then the To address, as you fill in the information. Exit the menu and save your changes.

*Email data will display system overload and underload counts only.*