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Important Precaution

**Important:** Disconnect all indicator leads before charging battery or welding equipment. Damage may occur to the indicator and load cells.
INDICATOR OVERVIEW

1. Press breaks indicator lock-on weight and re-weigh. Press and hold zero balances scale.

2. Pre-Alarm Light – Starts flashing and alarm sounds when weight within preset limit.

3. Press turns indicator on, press again to record data to indicator memory.

4. Press turns off indicator

5. Press to print displayed weight and EID data.

6. Quickly press this key then Record/On starts the self test. Holding this key in for 2 seconds indicator enters long form setup.


8. Press to perform tasks displayed by select.

9. Press to display additional tasks.

Note: See page 44 for installation instructions
10 **Load Cell** – Port for load cell cord.

11 **Load Cell** – Port for load cell cord.

12 **Power** – Port for Power Cord.

13 **Serial/Printer** – Port, if installed, used to communicate with computer and other digital input/output devices such as a printer.

14 **Remote** – EID reader port.

15 **Serial Number Plate** – Serial Number indicator.
Allflex EID Stick Reader, Electronic ID & Visual ID

16 Electronic ID (EID) for Allflex® Wand Reader. (Supplied by others)
17 Visual ID (VID) for Allflex® Wand Reader. (Supplied by others)
18 EID Stick Reader Allflex® Electronic ID (EID). (Optional see page 46)
See Pages 44 for Installation Instructions.

**OPERATION**

**Turn On indicator**
1. Press

![Turn On indicator graphic]

**Zero Balance indicator**
1. Press and hold zero balances indicator.

![Zero Balance indicator graphic]

**READING EARTAGS AND WEIGHING ANIMALS**

Bring animal on scale platform.

1. Indicator Locks On animal’s weight “L” shows upper left hand corner of display. Display alternates between “NO EID” and weight.

![Reading eartag and weighing graphic]
1. Push button on EID Stick Reader with end of stick within range of EID Tag. Once tag read Stick Reader beeps and LED indicator turns from red to green momentarily.

EID Stick Reader

1. Release animal, when off platform animal weight and EID Data stored in indicator.

EID tag may be read any time before, during or after weight “Locked On”.

1. Last four digits of tag displays after reading. Last four digits of EID number flanked by dashes before data stored.

2. Once data manually stored stars flank data.
NOTES: Each time pressed one line of data stored. Multiple entries made of same tag by pressing more than once (results in multiple beeping). Data stored manually for animal, will not be stored when animal steps off scale. Automatic mode will resume for next animal.

Stick Reader can read data from other devices such as car keys. Such devices can cause confusion.

No print device necessary for operation of indicator when weighing animals.
Recheck Lock On Weigh

1. Animal on platform, press \( \text{RECHECK} \) to recheck or recalculate weight of animal. Weight stored/printed when animal steps off platform or press \( \text{RECORD} \).

Low Battery Indication

1. Battery voltage low, “RECHARGE BATTERY - TURNING OFF” and “LO BAT” shows on display. After 2 minutes indicator shuts off.

NOTE: Disconnect indicator from battery while recharging. Damage can occur to indicator and stick reader.

Self Test

1. Press \( \text{MENU} \).
2. Then during normal system operation starts self-test. Press \( \text{MENU} \) to stop the self test at any point.
OPTIONAL SETTINGS

Change Setup and Calibration

1. Press and hold .
2. Push three seconds.
3. Press advances through selections.

3300LB  StockWeigh 3300 with Lock On (pounds)
6600LB  StockWeigh 6600 with Lock On (pounds)
10K LB  StockWeigh 10000 with Lock On (pounds)
14K LB  StockWeigh 14000 with Lock On (pounds)
3300KG  StockWeigh 3300 with Lock On (kilograms)
6600KG  StockWeigh 6600 with Lock On (kilograms)
10K KG  StockWeigh 10000 with Lock On (kilograms)
14K KG  StockWeigh 14000 with Lock On (kilograms)

Custom  Press indicator displays SETUP and then 6-digit number with right digit flashing. To change setup number, enter new number on keypad and press then CAL displays followed by a 3 to 5-digit number. To change calibration number enter new number on keypad then press .

Verify accuracy of scale and procedure complete!
Changing Options Using Long Form Setup

1. Press & Hold the [MENU] button for 2 seconds to enter long form setup.


3. Press [RECORD] to see first option.

1. When option displayed press [SELECT] until desired setting.

2. Press [RECORD] to record changes and enter next option.
### Setting Options

<table>
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<tr>
<th>Setting/Display</th>
<th>Options (Bold = Default)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Menu 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td></td>
<td>Select desired language</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Updat e Rate</strong></td>
<td>1, 2, 3, 4</td>
<td>Update display times per seconds.</td>
</tr>
<tr>
<td><strong>Motion Arrow</strong></td>
<td>ON/OFF</td>
<td>Arrow flashes for unstable weight.</td>
</tr>
<tr>
<td><strong>Zero Tracking</strong></td>
<td>ON/OFF</td>
<td>Zero track adjusts to zero for build up of snow and mud.</td>
</tr>
<tr>
<td><strong>Weigh Method</strong></td>
<td>1=General, 2=Fast, 3=Slow, 4=Lock-On</td>
<td>Select weigh method.</td>
</tr>
<tr>
<td><strong>Lock-On</strong></td>
<td>1, 2, 3, 4, 5, 6, 7, 8, 9</td>
<td>Use lowest setting for system to lock on consistently.</td>
</tr>
<tr>
<td><strong>Lock-N-Hold</strong></td>
<td>ON/OFF</td>
<td>Holds “Lock-On” weight (records after animal steps off platform). Restarts when: Next animal steps on platform or 5 min of inactivity or [RECHECK] pressed.</td>
</tr>
<tr>
<td><strong>Auto Off</strong></td>
<td>15, 30, 45, 60, OFF</td>
<td>Indicator shuts “OFF” after set period of inactivity. Press any key to prevent.</td>
</tr>
<tr>
<td><strong>Lock-On Store</strong></td>
<td>See Page 34</td>
<td>Configure how and when weighing data printed or sent to computer port and stored into memory on indicator during animal weighing.</td>
</tr>
<tr>
<td>Setting/ Display</td>
<td>Options</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>----------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| OFF (OFF)        |          | - Indicator does not accept EID data.  
                 |          | - Indicator does not store data to memory.  
                 |          | - Sends data to computer port only when APRINT set to “ON”.  
                 |          | - Set PRTFMT to select desired print format. |
| Manual Print (MANPRT) |          | - Indicator does not accept EID data.  
                     |          | - Indicator does not store data in memory.  
                     |          | - Sends time, date and weight data to computer port, press \(1\)  
                     |          | - Set PRTFMT to select desired print format. |
| Automatic Print (AUTPRT) |          | - Indicator does not accept EID data.  
                           |          | - Indicator does not store data in memory.  
                           |          | - Sends Time, Date and Weight data to computer port when scale locks-on or animal steps off platform.  
                           |          | - Set LSSEND to select when data sent  
                           |          | - Set PRTFMT to select desired format. |
| Manual Weight (MANWT) |          | - Indicator accepts EID data  
                      |          | - Message will not alert operator if EID data is missing.  
                      |          | - Indicator does not store data in memory.  
                      |          | - Sends EID, time, date and weight data to computer port, press \(1\)  
                      |          | - Print format EID print format.  
                      |          | - Data will print even if EID not provided. |
| Automatic Weight (AUTOWT) |          | - Indicator accepts EID data.  
                             |          | - Message will not alert operator if EID data missing.  
                             |          | - Indicator does not store data in memory.  
<pre><code>                         |          | - Sends EID, time, date, weight data to computer port when scale “Locks- |
</code></pre>
<table>
<thead>
<tr>
<th>Setting/Display</th>
<th>Options (Bold = Default)</th>
<th>Description</th>
</tr>
</thead>
</table>
|                 |                          | On” or when animal steps off platform.  
-Set LSSEND to select when data sent to computer port.  
-Print format is EID print format.  
If LSSEND “ON”, data sent to computer port when scale “Locks-On” to weight. EID must be read before animal weighed in this mode.  
If LSSEND “OFF”, and EID not read time, date, weight data sent when animal off platform. |
| Manual EID      | (MANEID)                 | -Indicator accepts EID data.  
-Message alerts operator if EID data missing.  
-Sends EID, time, date, weight data to computer port and stores comma-separated values (CSV) in memory when pressed  
-Print format EID print format.  
-Data stored in EID data format  
-If ESTORE “OFF”, data not stored into indicator memory. |
| Automatic EID   | (AUTOEID)                | -Indicator accepts EID data.  
-Message alerts operator if EID data missing.  
-Sends EID, time, date, weight data to computer port and stores CSV in memory when scale “Locks-On” or when animal off platform.  
-Set LSSEND to select when data printed.  
If LSSEND “ON” and EID not read, press prints data.  
If LSSEND “OFF” and EID not read, time, date, weight data prints when animal off platform.  
-Print format EID print format.  
-Data stored in EID data format |
<table>
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<tr>
<th>Setting/Display</th>
<th>Options (Bold = Default)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual Check (MANCHK)</td>
<td>-Indicator accepts EID data.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Message alerts operator EID data missing. Operator must press to print and store data with or without EID.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Sends EID, time, date, weight data to computer port and stores comma-separated values (CSV) in memory when press.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Print format EID print format.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Data stored in EID data format.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-If ESTORE “OFF”, data not stored into indicator memory.</td>
<td></td>
</tr>
<tr>
<td>Automatic Check (AUTCHK)</td>
<td>-Indicator accepts EID data.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Message alerts operator if EID data missing. Press prints and stores data without EID.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Sends EID, time, date, weight data to computer and stores (CSV) in memory when EID data read and scale locks-on or when animal off platform.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Set LSSEND to select when data printed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Print format EID print format.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-Data stored in EID data format.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-If ESTORE “OFF”, data not stored into indicator memory.</td>
<td></td>
</tr>
<tr>
<td>Lock-On-Store Send (LSSEND)</td>
<td>ON/OFF</td>
<td>Data sent when scale LOCKS-ON and EID read. Press rechecks weight and send/store new data.</td>
</tr>
</tbody>
</table>
| EID Store (ESTORE) | ON/OFF | Indicator stores data in following LSTORE modes: MANEID, AUTEID, MANCHK, AUTCHK. “StockWeigh
<table>
<thead>
<tr>
<th>Setting/Display</th>
<th>Options (Bold = Default)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Link</strong>” software retrieves data from memory. “OFF” for LSTORE modes sends data to computer port and store data into memory keeps memory from filling up.</td>
</tr>
<tr>
<td>EID Auto (EIDAUT)</td>
<td>ON/OFF</td>
<td>With no weight on platform, indicator prints, stores data (per LSTORE and ESTORE settings) after EID tag read. Weight on scale, tag read, scale operates normally EIDAUT has no effect. Off - in most weighing applications.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sets scroll rate of Display</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Values to continue</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Menu 2</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Time Format (TIME F)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>24 HR AM/PM</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EID Print and EID CSV Data Formats always use 24-hour time format.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Set Time (TIME)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>XX:XX:XX</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Date Format (DATE F)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>1,2,3,4,5,6,7,8</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select date format. (EID print and EID CSV data formats always use #2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 = mm – dd 3 = mm/dd/yyyy 5 = dd/mm/yyyy 7 = dd/MM/yyyy 2 = mm/dd/yy 4 = dd/mm 6 = dd/mm/yyyy 8 = dd/MM/yyyy</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Set Date (DATE)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Enter XXXXXX</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use [SELECT] and [FUNCTION] to set date “mmddyy” field. Press [RECORD] to set.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>One Line Print (1L PRT)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ON/OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Formats printer output to one line.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Scoreboard Mode (SCOREM)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>0-10,13,21-26</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Methods to output display data to scoreboard via com port.</td>
</tr>
<tr>
<td>Setting/Display</td>
<td>Options (Bold = Default)</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Auto Print (PRINT)</td>
<td>ON/OFF</td>
<td>Pressing keys will automatically print weight values.</td>
</tr>
<tr>
<td>Print Format (PRTFMT)</td>
<td>AUTO</td>
<td>See Page 34 for details.</td>
</tr>
<tr>
<td>Zero Out</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Com 1 Delay (C1 DLY)</td>
<td>OFF,.10,.25,.50,.75,1-5</td>
<td>Seconds printer delays before advancing line.</td>
</tr>
<tr>
<td>Com 2 Delay (C2 DLY)</td>
<td>OFF,.10,.25,.50,.75,1-5</td>
<td></td>
</tr>
<tr>
<td>Estimated Weight (EST WEIGHT)</td>
<td>0,1,2,3,4,5,6,7,8,9</td>
<td>Enter weight on scale</td>
</tr>
</tbody>
</table>

Menu 3

<p>| Display Count (COUNT)          | 01,.02,.05,.1,.2,.5,1,2,5,10,20,50,100 | Count set too small, readings unstable and indicator not accurate          |
| Auto-Range (ARRANGE)           | ON/OFF                               | Scale increases display count size for weights over 300 again at 600 lbs/kgs.|
| Display Unit (LB-KG)           | LB/KG                                 | When changing weight unit calibration adjusted so scale displays accurately in new display unit |
| Capacity (CAP)                 | 4000                                  | Enter maximum weight measurable                                            |
| WM1 ADJUST (WMA 1-1)           | 10                                    | Increase number to smooth weighing                                          |
| WM1 ADJUST 2 (WMA 1-2)         | 0,1,2,3,4,5,6,7,8,9                  | 0=OFF Use values less than WMA 1-1 for quick weight response.               |
| WM1 ADJUST 3 (WMA 1-3)         | 400                                   | Enter weight to activate quick weight response.                             |
| WM2 ADJUST 1 (WMA 2-1)         | 30                                    | Increase number to smooth weighing                                          |</p>
<table>
<thead>
<tr>
<th>Setting/Display</th>
<th>Options (Bold = Default)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WM2 ADJUST 2 (WMA 2-2)</td>
<td>10</td>
<td>0=OFF Use values less than WMA2-1 for quick weight response.</td>
</tr>
<tr>
<td>WM2 ADJUST 3 (WMA 2-3)</td>
<td>400</td>
<td>Enter weight activate quick weight response.</td>
</tr>
</tbody>
</table>

**Menu 4**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buzzer (BUZZER)</td>
<td>1-4, ON, OFF Decrease # shortens alarm horn</td>
</tr>
<tr>
<td>Relay (RELAY)</td>
<td>SETPNT/OFF Set control for 12 VDC alarm Press enter @ setpnt gives option to enter value</td>
</tr>
<tr>
<td>SETCHG</td>
<td>50 Weight below SETPNT to change 12VDC alarm</td>
</tr>
<tr>
<td>SETDEL</td>
<td>0 Time before 12 VDC alarm output changes</td>
</tr>
<tr>
<td>SETOUT</td>
<td>OVER/UNDER 12 VDC alarm = +12 VDC when over or under setpnt</td>
</tr>
<tr>
<td>SETCTR</td>
<td>0,1,2,3,4,5,6,7,8,9 Use keypad to enter values.</td>
</tr>
</tbody>
</table>

**Calib**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tcalb</td>
<td>ON/OFF Scale adjust for temperature changes</td>
</tr>
<tr>
<td>Zero</td>
<td>Press and hold to zero balance</td>
</tr>
<tr>
<td>Add Wt</td>
<td>Enter weight amount on scale</td>
</tr>
</tbody>
</table>
STOCKWEIGH LINK™ PC SOFTWARE

StockWeigh Link™ software can be configured to automatically or manually import data collected indicator. Tag number, weight, date, time and other information transmitted from indicator and stored in CSV (Comma Separated Value) file that works easily with ordinary spreadsheet programs like Microsoft Excel®.

Getting Started

This section explains necessary steps to install software and run StockWeigh Link™ Software using default settings.

Read Software License Agreement

Read Digi-Star ® Software License Agreement on page 40. When seal broken on CD, and software installed, you agree to terms of license agreement.

Minimum System Requirements

Make certain your PC includes the following:

Pentium™ 100 or better PC, Microsoft Windows 98, 2000, ME, XP or NT™ 100 meg free disk space, 32 meg Ram, CD Drive, mouse, printer, serial port or USB port and USB to Serial Port Adapter.

NOTE: A USB to Serial Port Adapter should be used if PC does not have a free serial port. Serial port must be assigned to port number 1 to 8. Certain programs interfere with operation of serial port / StockWeigh Link™. Programs include Palm Desktop and some auto ID software. Shut off these programs when reading / writing to indicator. Failure to shut off these programs during this sequence may result in errors and lost data.

Installing the StockWeigh Link™ PC Software

Install software:

1. Close all open programs.
2. Insert CD into drive. If Auto Run enabled on computer, follow installation instructions. If installation screen does not appear, go to Start and select Run. From Run menu, browse CD and select “setup.exe”. Install screen will appear. Follow installation instructions.
3. Disconnect computer from StockWeigh computer port.
4. Double-click on StockWeigh Link icon starts program.
5. Click on StockWeigh Link icon in taskbar.
6. Program directs Plug StockWeigh Scale into working comm port and press the ‘Start’ button. Connect one end of data cable to a serial port (DB-9 connector) on PC. If only USB port available, use “USB to Serial Port Converter”. Connect other end of data cable to indicator bottom panel DB-9 connector labeled “COMPUTER”. Click start. Attach power to indicator, press click Start.

Find Comm Port

7. Program will search and find comm. port. A box pops up with “Working Stockweig found” and tell where it was found. Click OK.

NOTE: When first connecting to computer with Stockweigh Link already installed or if comm port needs to change, select Files\Comm. port for StockWeigh, the screen above will appear. Press start.

8. Enter 6-digit StockWeigh Link™ serial number from CD.
Opening Stockweigh Link Program

1. To open program double click on Stockweigh Link icon on your desktop.
2. Once started it will show in the taskbar of the PC.
3. Click on icon in taskbar to popup Stockweigh Link Screen.
Stockweigh Link Set-up

This command opens a dialog box enabling operator to configure software. Defaults shown below.

**Received Text File Storage**
- **File Path**: C:\StockWeigh\Data\n- **Fixed File Name**: Always stores data to same file name in folder defined in “File Path” field.
- **NOTE**: Previously existing data file will be overwritten and lost when using fixed file name. Use Date Specific File Name (see below) to avoid loss of data.

**Clear StockWeigh Scale Memory Mode**
- Auto Clear after Read
- Ask to Clear after Read
- Only Clear with Function Control

**Printing File from StockWeigh Scale**
- No Printing
- Ask each time if the Livestock data file is to be printed
- Automatically Print the Livestock data file each time

**Store File Header**
- Do not add file header to the stored data.
- Add file header to stored data.
As each Time for File Name:
PC prompts operator for filename each time data stored to PC.

Date Specific File Name [yyymmdd_xx.csv] (default):
A unique file name automatically generated by program. File name includes date and sequential number.

Remove Checksum character from stored livestock data line:
Put a check in this box prevents data verification number from printing on spreadsheet.

Auto File Retrieval
Auto Detect StockWeigh and Retrieve Livestock Data (default):
PC senses indicator connected, and automatically stores data in CSV file. StockWeigh Link software must be running 15 seconds before indicator connected.

NOTE: Duplicate files created using this command. Be aware that data file automatically created when indicator connected to PC.

Only Retrieve Livestock Data by Operator Demand:
Operator must enter utilities menu and select the command “Read StockWeigh” to transfer data from indicator to CSV file in PC.

Clear StockWeigh Memory Mode
Auto Clear After Read:
Memory cleared automatically after read and stored on PC.

Ask to Clear After Read (default)
Program will ask operator “Do you wish to clear the StockWeigh memory?” after data read and stored on PC.

Only Clear with Function Control
Operator must enter utilities menu and select command “Clear StockWeigh” to clear memory in indicator.

NOTE: If indicator memory not cleared before reading more ear tags, new EID data will be added to previously read EID data. Memory capacity is used up by old data and duplicate data transferred to the PC.
Printing File from StockWeigh

No Printing:
Data is not printed when data downloaded from indicator to PC.

Ask Each Time if Livestock Data to be Printed (default):
Program asks “Do you wish to print livestock data file?” after downloading data to your PC.

Automatically Print Livestock Data Each Time:
Program prints data file when it transferred to PC.

Store File Header
Stores file headers with data. Header explains fields of file.

Do not add file header to stored data:
Does not add file headers

Add file headers to stored data:
Add File headers to files when stored.

Clear StockWeigh:
This command clears indicator memory. (Not used with “Auto Clear After Read” commands, see above).

Read StockWeigh:
Command reads indicator memory and loads to “CSV” formatted file. (Not used with “Auto Detect StockWeigh and Retrieve Livestock Data” commands, see above).
About:
Contains software version number and serial number.

Instructions
Contains text file with detailed instructions. Instructions can be printed.

Transferring Data from Indicator to PC

NOTE: Do not run weigh while Stockweigh Link is running. This is not a “Chute Side” application. Do not connect both stick reader and computer to indicator while running program.

1. StockWeigh Link™ icon on taskbar indicates that software installed, running and ready for next step. Allow software to run 15 seconds before proceeding.

2. Connect one cable end to serial port (DB-9 connector) on PC. Connect other cable end to indicator bottom panel connector labeled “COMPUTER”. Connect power to indicator, press .

NOTE: For the Stockweigh Link Software to communicate with indicator it must be on the weigh or stats screen.

3. If configured for “Auto Detect” a window pops up indicating that data being transferred. When it is complete window will clear.
NOTE: If Auto Detect is not set to on, select “Utilities/Read Stockweigh”, window pops up indicating that data being transferred. Follow screen instructions to print and clear indicator records.

Files are now saved in specified file in C.S.V. (Comma Separated Format). These files can now be opened in an Excel spread sheet and manipulated as required by user.
EID READER – OPTIONAL

NOTES: The StockWeigh connects to Allflex™ ISO Compatible RFID Stick Readers only. Do not attempt to use with other RFID readers or peripherals that are not approved by Digi-Star. DAMAGE MAY OCCUR.

The Allflex™ Stick Reader reconfigures output format if the button is depressed while powering “ON”. Be careful not to lay stick reader with button down while applying power.

The Allflex250™ Stick Reader gets its power from StockWeigh “EID Reader” port and does not use external power cube. Allflex 320 reader uses batteries in handle.

If problem with Allflex™ RFID Stick Reader or number of characters it is transmitting, follow procedure below to re-configure stick reader to TIRIS S2000 output format.

Refer to Allflex™ RFID Stick Reader manual for details.
Re-Configuring Allflex Stick Reader

Press \(-\) Off
Connect reader to EID port.
Skip this step for 320 reader
Press and hold “read” button on reader while pressing “On”
After 2 seconds, reader responds with 6 flashes and 6 beeps. Release “Read” button.
Press “On” key to start self test. When indicator scrolls “ENTER “ON” TO CONTINUE OR PRESS “ENTER” TO RESET EID READER”, press “Enter” re-configures reader to TIRIS 2000 output format.
If re-configure successful, indicator displays “GOOD”. If indicator displays “ERROR”, try procedure again,

Contact Dig-Star technical support if problems persist.
WEIGH METHODS

Select weigh method #4 for animal weighing. EID features require indicator set in this mode. Use StockWeigh for stable loads, Lock-On Weigh method. Other methods listed below.

NOTE: Most of StockWeigh features require weigh method #4.

**General Weigh Method #1**
All purpose weigh method for stable loads.

**Slow Weigh Method #2**
Higher accuracy for weighing stable loads.

**Fast Weigh Method #3**
Determines new weight quickly when weighing stable loads.

**Lock-on Weigh Method #4**
Weighing active animals and displays stable accurate weight. Set to “OFF” for weighing stable weights. Lock-On sensitivity can be adjusted using “LOCKON” menu.

Once weight displayed, scale “Locks-On” to weight. Weight does not change, even if motion never stops. Small 'L' appears on left side of the display indicating weight “Locked-On.” Animal’s weight must be greater than 2.5% of scales “capacity” weight before system “Lock-On.” Break lock, 50% of displayed weight added or removed from scale. “Locked-On” weight can be “rechecked” by pressing breaks “lock” and scale recalculates weight.
SHORT FORM CALIBRATION

Short Form Setup & Calibration procedure allows changing “SETUP” and “CAL” numbers of indicator.

Setup Number
The “SETUP” numbers affects some parameters that also appear in Long Form Calibration. Following is a list of functions controlled by “SETUP” number:
- Weigh Method (W MTHD)
- Display Units (LB-KG)
- Display Counts (COUNT)
- Gain
- Scale Capacity

Calibration Number
The “CAL” number adjusted to make scale read proper weight for different load cells and to make accuracy adjustments on scale system. If a StockWeigh indicator provided with StockWeigh load cells as a package, calibration number adjusted at factory for maximum accuracy. Systems that are assembled from separate components are given “STANDARD SETUP AND CALIBRATION NUMBERS” and are not factory calibrated. These systems should be checked and adjusted if necessary using known weights to insure accuracy. See “Calibrating the Scale for Maximum Accuracy” below.

List of Standard Setup and Calibration numbers for StockWeigh 3300, 6600, 10000 and 14000 load cells shown below. If not using StockWeigh load cells, contact Digi-Star Tech Support at 920-563-9700 for setup and calibration information:

<table>
<thead>
<tr>
<th>StockWeigh Scale Type</th>
<th>Unit</th>
<th>Setup #</th>
<th>Calibration #</th>
</tr>
</thead>
<tbody>
<tr>
<td>3300</td>
<td>Lbs</td>
<td>413004</td>
<td>776</td>
</tr>
<tr>
<td>6600</td>
<td>Lbs</td>
<td>413007</td>
<td>1560</td>
</tr>
<tr>
<td>10000</td>
<td>Lbs</td>
<td>454010</td>
<td>14000</td>
</tr>
<tr>
<td>14000</td>
<td>Lbs</td>
<td>443015</td>
<td>13828</td>
</tr>
<tr>
<td>3300</td>
<td>Kg</td>
<td>812002</td>
<td>352</td>
</tr>
<tr>
<td>6600</td>
<td>Kg</td>
<td>812003</td>
<td>708</td>
</tr>
<tr>
<td>10000</td>
<td>Kg</td>
<td>854010</td>
<td>6351</td>
</tr>
<tr>
<td>14000</td>
<td>Kg</td>
<td>843007</td>
<td>6272</td>
</tr>
</tbody>
</table>
Calibrating Scale for Maximum Accuracy

First write down current SETUP and CAL numbers of indicator. These numbers are displayed during self test. To run self test with indicator already ON, press “On”. Press “On” pauses self test while numbers displayed. Press “On” again to resume.

```
SETUP # ____________ CAL # ______________
```

A large amount of known weight needed to calibrate scale. For best results have at least as much weight as largest load to weigh.

Determining New Setup and Calibration Numbers.

Zero-Balance scale so display reads zero.

Put KNOWN WEIGHT on scale platform and write down WEIGHT DISPLAY. Perform the following equation to find ACCURATE CAL #.

\[
\frac{\text{KNOWN WEIGHT}}{\text{WEIGHT DISPLAY}} \times \text{EXISTING CAL #} = \text{ACCURATE CAL #}
\]

Example:
The KNOWN WEIGHT 1000lbs, but WEIGHT DISPLAY 950lbs. The EXISTING CAL # is 776.

\[
\frac{1000}{950} \times 776 = 817
\]

817 is the ACCURATE CAL#. The setup number does not change.
EID DATA FORMATS

Data output thru computer port to be stored in a computer or printed. There are many different data formats to choose. “LSTORE” mode can configure data format automatically or allow user to set print format by using “PRTFMT” menu.

LSTORE Data Formats

Use PRTFMT when in “LSTORE” modes:

OFF
MANPRT Manual Print
AUTPRT Auto Print

Print Formats

Following is a detailed explanation of print formats that are available on StockWeigh. Some are Comma Separated Values (CSV) that make it easier to input scale data into PC Spreadsheet and Data Base programs.

NOTE: The appearance of the printouts may be affected by option settings of 1L PRT, TIME F and DATE F.

AUTO - If “LSTORE” is set to “MANPRT” or “AUTPRT” and “PRTFMT” is set to “AUTO”, standard EZ Indicator print format will be used. Print example:

```
09MR04 10:15
880LB$GR
```

WTONLY - Includes weight, display unit, $' if unit is "locked on", weight tag (GR, M+, etc.). Ends with a <CR>,<LF>. Print example:

```
635LB$GR
```

DOWNLD - This format compatible with original Downloader. Includes weight, display unit, $' if unit "locked on", weight tag (GR, M+, etc.) date and time.

```
DT+TM - This CSV format includes weight, display unit, $' if unit "locked on", weight tag (GR, M+, etc...) and date. Ends with a <CR>,<LF>. Print example:

```
" 610,LB, ,GR,13MR02,11:08"
```

ID+TM - This CSV format includes ID, weight, display unit, $' if unit "locked on", weight tag (GR, M+, etc...) and time. Ends with a <CR>,<LF>. Print example:

```
" , 0,LB, ,GR,11:08"
```
**IDWT TM** - This CSV format includes ID, weight, display unit, $' if unit "locked on", weight tag (GR, M+, etc...), date and time. Ends with a <CR>,<LF>. Print example:

"FARM 1, 16090, LB, ,GR, 27JA00, 10:37P"

**ANIMAL** - This CSV format includes information for animal weighing. Includes $' if unit "locked on", weight, weight tag (GR, M+, etc...), display unit, Memory Weight (RM), Average Count (Number of times M+ key was pressed), Average Weight, Gross weight on scale, ID, date and time. Ends with a <CR>,<LF>. Print example:

" , 1400, GR, LB, 2180, 4, 545, 1400, , 11:09, 13MR02"

3200 A See service bulletin # 19 for details.
3200 B See service bulletin # 20 for details.
32 TMR See service bulletin # 19 for details.
BATCH1 Contact Digi-Star technical support for details.
FDINFO Contact Digi-Star technical support for details.

**WTRCTM** - This CSV format includes basic weighing information. Includes Gross Weight, display unit, weight tag (GR, M+, etc...), Total Rotation Count, Date & Time. Ends with a <CR>,<LF>. Print example:

" 280, LB, GR, 187, 03JL03, 3:41P"

**EIDINF** - This CSV format includes EID memory status information. Ends with a <CR>,<LF>. The response from the Stock Weigh Indicator will be as follows:

"uuuuuu, UUUUUU, mmmmmm<CR><LF>"

uuuuuu = Used Livestock EID lines (6 digits)
UUUUUU = Un-used Livestock EID lines (6 digits)
mmmmmm = Maximum Livestock EID lines (6 digits)
<CR>'Carriage Return' [0D] hex or [13] decimal
<LF>'Line Feed' [0A] hex or [10] decimal

Print example:

" 157, 1379, 1536"

**EID** - This CSV format includes EID tag number if available, weight info, date, and time. Print example:

", 860, LB, $, GR, 03/09/04, 08:58, j

Print example (1L PRT=ON):

", 860, LB, $, GR, 03/09/04, 08:58, j

**NOTE**: Only the Stock Weigh Indicator supports EID memory storage.
The following "LSTORE" modes automatically configure the print format for animal weighing with EID data.

**MAN WT** - Manual Weight

**AUTOWT** - Automatic Weight

**MANEID** - Manual EID. See EID Print Format and CSV Data Format
EID Print Format

EID print data transmitted out COMPUTER port on bottom of indicator while weighing animals.

NOTE: When using computer port for EID data, make sure SCOREM set to “0”, TAREAP set to “OFF” and APRINT set to “OFF”.

EID data may vary in number of characters, spaces etc. Refer to Allflex TM Stick Reader User Manual for more information.

C>XXXXX>X>XXX>XXXXXXXXXXXX,
XXXXXX, LB, $, GR, mm/dd/yy, hh:mm, Z<cr><lf>

Examples of EID Print Format:

A 00000 0 982 000017383201,<cr><lf>
890, LB, $, GR, 8/27/03, 10:15,<cr><lf>

A 00000 0 982 000017383201, <cr><lf>
1001, LB, ,GR, 8/27/03, 10:21, M<cr><lf>

EID Print Data Format always uses date format #2 and 24-hour time format as shown.

EID CSV Data Format

EID CSV Data collected from ear tag using EID Stick Reader and stored in memory along with weight, date, time and other information. Eight data fields each separated by a comma followed by carriage return and line feed:

Field 1  EID Data
Field 2  Weight Value
Field 3  Unit of Measure (Lb/Kg)
Field 4  “$” Indicates Weight Locked-On
Field 5
Field 6  Date
Field 7  Time
Field 8  Checksum Character
Carriage Return
Line Feed
Four modes that store the EID CSV data into indicator memory.

- **MANEID**: Manual
- **EID AUTEID**: Automatic
- **EID MANCHK**: Manual Check
- **AUTCHK**: Automatic Check

Data formatted as CSV file transferred to PC. CSV files make it easier to input scale data into PC Spreadsheet and Data Base programs.

Following an example of two data lines. Note that in last line of data, no “$” shown because weight not “Locked On.”

Examples of EID CSV Data:

```
A 00000 0 982 000017383201, 890, LB, $, GR, 8/27/03, 10:15, \_<cr><lf>
A 00000 0 982 000017383201, 1001, LB, , GR, 8/27/03, 10:21, _<cr><lf>
```

**EIDVID Data Format**

Indicator response will be as follows:

```
<RS>EEEEEEEEEEEEEEEEEEEEEEEEEEEEEE,vvvvvvv,rrrrrrr,ppppppp,wwwwwww,kk
  ,$,gg,mm/dd/yy,hh:mm,ccc,aaaaaa,nnnnnnnnnnnnnnnnnnnnnnnnnnnn,C<CR><LF>
```

- `EEEEEEEEEEEEEEEEEEEEEEEEEEEEEE` = EID tag (29 alphanumeric characters)
- `vvvvvv`.......................... = VID tag (7 alphanumeric characters)
- `rrrrrrr`.......................... = Group ID (7 alphanumeric characters)
- `ppppppp`.......................... = Premise ID (7 alphanumeric characters)
- `wwwwwww`.......................... = Weight (7 numeric characters)
- `kk`.......................... = ‘LB’ for pounds ‘KG’ for kilograms
- `$`.......................... = $ character or a space character. The $ character indicates the indicator is setup for the “Lock On” weigh method and has “locked onto” a weight value.
- `gg`.......................... = “GR” for gross or ‘NT’ for net
- `mm/dd/yy`.......................... = Date
- `hh:mm`.......................... = Time 24 hour format
- `ccc`.......................... = Code (3 alphanumeric characters)
- `aaaaaa`.......................... = Average Daily Weight Gain (6 numeric characters. Example: 123.45, -12.34, 2.45)
- `nnnnnnnnnnnnnnnnnnnnnnnnnnnn` = Note (26 alphanumeric characters)
- `c`.......................... = Checksum character
- `<CR>`.......................... = ‘Carriage Return’ [0D] hex or [13] decimal
- `<LF>`.......................... = ‘Line Feed’ [0A] hex or [10] decimal
SCOREBOARD METHODS

Ten scoreboard methods available. Methods one thru six sends numeric display data out RS232 port periodically while other methods send data stream described below.

1. Transmit numeric display data once/second.
2. Transmit numeric display data two times/second.
3. Transmit numeric display data three times/second.
4. Transmit numeric display data at A-D conversion rate.
5. Transmit numeric display data at display rate.
6. Transmit numeric display data whenever a display weight changes.
7. Transmit status data string every second. Status data string includes weight, rotation counter data, date and time.
8. Transmit status data every five seconds. Status data string includes weight, rotation counter data, date and time.
9. Reserved.
10. Transmit EID data string every 2 seconds.
13. Transmit EIDVID data string every 2 seconds.

NOTES: When using SCOREM = 1, 2, 3, 4, 5, 6 and 9 be sure to set LSTORE = OFF, TAREAP = OFF and APRINT = OFF to avoid corrupted data when transmitting scoreboard data and printing scale data.

When using SCOREM = 7, 8 and 10, print data will not be corrupted by scoreboard data.
WEIGHING ERRORS

OVRCAP
Capacity Limit:
Display shows message "OVRCAP" if weight on scale system exceeds capacity limit. Capacity value entered in SETUP to warn of overloading scale system.

+RANGE
Over Range:
Display shows message "+RANGE" if weight on scale system exceeds maximum weight measurable by scale system. Over range value always system’s maximum A/D counts multiplied by scaling factor. Actual weight at which over range occurs depends on calibration, zero, and display count size.

-RANGE
Under Range:
Display shows message "-RANGE" if weight on scale system less than minimum weight measurable by scale system. Under range value always system’s minimum A/D counts multiplied by scaling factor. Actual weight at which under-range occurs depends on calibration, zero, and display count size.

NOTE: EZII Series supports –RANGE that is equal to +RANGE in absolute value.
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TROUBLESHOOTING GUIDE

START

Does the indicator come on?

YES

Does the indicator respond when you step on the scale?

NO

Check for 12 VDC at the AC/DC converter power cord. If you do not have a multimeter, use a car battery to power the scale. If the Indicator still does not come on, send in for repair.

YES

Does the scale weigh you close to your weight?

NO

Check for debris around and under the platform and load cells. Check for warped or damaged mounts on platform.

NO

Disconnect the load cell cable from the Indicator. Press the Indicator “TARE” key. (The Indicator display should go to zero). Stand on the load cell. Does it display a reading about twice your weight?

YES

This Load Cell is OK. Disconnect the first load cell and connect the other load cell to the same connector. Now stand over the second load cell. Does it weigh twice your weight?

NO

The load cell is defective. Check its cables for cuts or flattened areas or send it back for repair. Check indicator using a known good load cell.

YES

Connect the load cell to the other connector on the Indicator. Stand on the load cell. Does it display about twice your weight?

NO

Check the platform for debris and mud interference. Check mounts for binding and obstructions.

Yes

Check the indica tor with a good working Indic ator.

NO

One of the Load Cells is Bad. A good load cell will weigh you at about twice your weight with only one load cell connected.

NO

The other load cell is defective. Check its cable for cuts or flattened areas or send it back for repair. Check the defective load cell by connecting it to the Indicator and verifying that it does not weigh.

YES

Disconnect one of the load cells and stand over the connected load cell. Does the indicator display a reading about twice your weight?

NO

Disconnect the first load cell and connect the other load cell to the same connector on the Indicator. Does the indicator display a reading about half your weight?

YES

The other load cell is defective. Check its cables for cuts or flattened areas or send it back for repair.

NO

Perform the paper test. Take two paper clips and carefully insert one into pin 2 and the other into pin 3 of either load cell connector jack on the Indicator. Hold one paper clip in each hand (if they touch it will not damage the Indicator). Does the reading on the Indicator jump around?

YES

Both load cells are defective. The Indicator is probably OK. Check the cables for damage and send both load cells in for repair.

NO

The other load cell is defective. Check its cable for cuts or flattened areas or send it back for repair.

YES

Disconnect the first load cell and connect the other load cell to the same connector on the Indicator. Now stand over the second load cell. Does it weigh twice your weight?

NO

The other load cell is defective. Check its cable for cuts or flattened areas or send it back for repair.

YES

Check the load cell cables for cuts and flattened areas.

NO

Disconnect one of the load cells and stand over the connected load cell. Does the indicator display a reading about twice your weight?

YES

Check the other load cell for cuts or flattened areas or send it back for repair.

NO

Check the other load cell is defective. Connect the second load cell to the same connector on the Indicator. Does the indicator display a reading about twice your weight?

YES

The other load cell is defective. Connect the second load cell to the same connector on the Indicator. Does the indicator display a reading about twice your weight?

NO

The other load cell is defective. Connect the second load cell to the same connector on the Indicator. Does the indicator display a reading about twice your weight?

YES

The scale weighs you close to your weight?

NO

Check for debris around and under the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

YES

The other load cell is defective. Connect the second load cell to the same connector on the Indicator. Does the indicator display a reading about half your weight?

NO

Does the scale weigh you close to your weight?

YES

Check for debris around and under the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

NO

Check for debris around and under the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

YES

The scale weighs you close to your weight?

NO

Check for debris around and under the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

YES

The scale weighs you close to your weight?

NO

Check for debris around and under the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

YES

The scale weighs you close to your weight?

NO

Check for debris around and under the scale mounts or platform. Check the load cell cables for cuts and flattened areas.

YES

The scale weighs you close to your weight?
INSTALLATION

Indicator Mounting

<table>
<thead>
<tr>
<th>KEY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>A</td>
<td>404353</td>
<td>BRACKET-EZ3 PLASTIC RAIL *</td>
</tr>
<tr>
<td>B</td>
<td>403780</td>
<td>SCR-#10 X 5/8 FHSTS BLACK ZP</td>
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<tr>
<td>C</td>
<td>840459</td>
<td>SUPPORT-HAT BRACKET</td>
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<tr>
<td>D</td>
<td>405069</td>
<td>U-BOLT 1/4-20 X 3.25 ZP</td>
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<td>E</td>
<td>405084</td>
<td>NUT-1/4-20 TOP LOCKING FLANGE</td>
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<tr>
<td>F</td>
<td>403770</td>
<td>BRACKET- WING MOUNT *</td>
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<tr>
<td>G</td>
<td>405124</td>
<td>PACK-WEDGE MOUNT BRACKET WITH U-BOLTS &amp; FLANGE NUTS</td>
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<tr>
<td>H</td>
<td>405244</td>
<td>EZ3 WEDGE MOUNT</td>
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<tbody>
<tr>
<td>I</td>
<td>404799</td>
<td>RAM MOUNT FOR EZ III INDICATOR WITH HARDWARE</td>
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<tr>
<td>J</td>
<td>404230</td>
<td>RAM SUCTION CUP W/TWIST LOCK</td>
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Cable Connection

12VDC Power Supply

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<td>Red</td>
<td>+Terminal</td>
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<tr>
<td>Black</td>
<td>-Terminal</td>
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</table>

**NOTE:** A small 12V deep cycle lead acid battery will provide hours of operation.

**NOTE:** 120VAC power cube to wall outlet may also be used.

Load Cell Cables – Provided.

See Illustration on next page.
Bottom Panel Cable Connections

- Computer
- Load Cell Connections
- Power Cord Connection
- Allflex™ Stick Reader
OPTIONAL EQUIPMENT

403635 Allflex 250 EID Tag Reader
Use to scan ear tag and send data to indicator. Powered by indicator using cord.

404375 Allflex 320 EID Tag Reader
Only

404448 EID Tag Reader Kit
Bluetooth (wireless) Includes 404375 reader with the transmitter in handle and receiver that plugs into RS232 port on indicator

403360 Animal Platform easily attaches to StockWeigh™
3300-24” load cells, 90” long x 24.5” wide at top and 15.5” wide where animal walks

403975 Converter USB to RS232

403315 1.5” mount assembly for EZ series of indicators