

DIGI★STAR

P R E C I S E L Y

SW4600EID Operators Manual



DIGI★STAR

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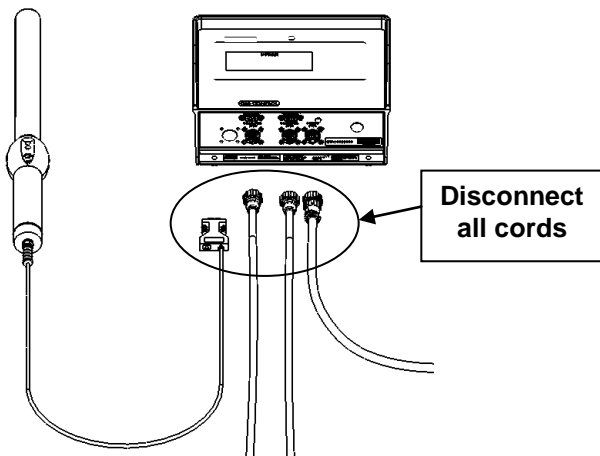
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D3740-US-SW4600EID Operators-Rev C-SCC

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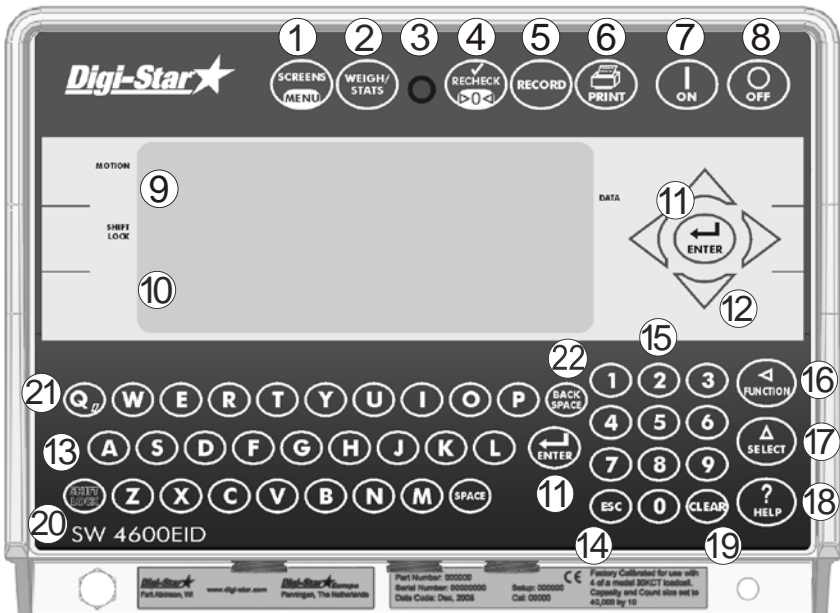
Charging Battery Or Welding



Important Precaution












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

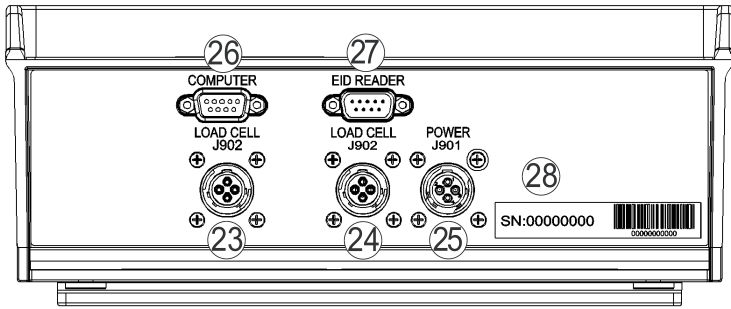
INDICATOR OVERVIEW



Note: See page 44 for installation instructions

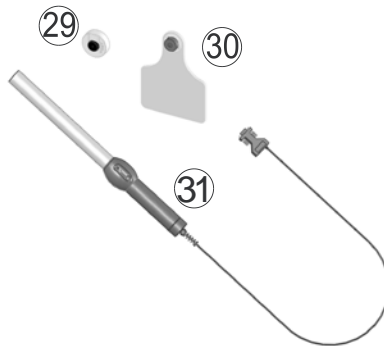
- ① **SCREENS MENU** – Press to toggle between GROUP/PREMIS (See page 10) and QUICK NOTE (See page 11) screens. Press and hold for LONG FORM set up screen (See page 17).
- ② **WEIGH/STATS** – Press to toggle between WEIGHT (See page 8) and GROUP STATISTICS screen (See page 9).
- ③ **Pre-Alarm Light** – Starts flashing and alarm sounds when weight is within preset limit.
- ④ **RECHECK** – Press to break indicator lock-on weight and reweigh. Press and hold, then press **ON** to enter short form calibration (See page 26).
- ⑤ **RECORD** – Press in manual mode to record data to indicator memory.
- ⑥ **PRINT** – Press to print displayed weight and EID data.
- ⑦ **ON** – Press indicator on. Press while on and in the record or stats screen to run self test.
- ⑧ **OFF** – Press indicator off.

- ⑨ Upper Display Window – Displays current actions.
- ⑩ Lower Display Window – Displays data for EID, VID, CODE, ADWG
(See page 7).
- ⑪  – Press to accept change or proceed to next item.
- ⑫ Directional Arrows – Left or right arrows move cursor inside data field.
Up and down arrows move to previous or next data field.
- ⑬ Keyboard – Press to input letters.
- ⑭  – Press to undo data field or get out of long form set-up.
- ⑮ Keypad – Press to input numbers.
- ⑯  – performs task displayed by select.
- ⑰  – toggle to determine which operation the function key performs.
Options: *QUICKO, MENU, SETUP, HELP, DIMMER*
- ⑱  – Press for additional information.
- ⑲  – Press to delete one character. Press and hold to delete entire line or field on weigh screen.
- ⑳  - Press and release. Then press  to enter a comma in data.
- ㉑  - Press after pressing  to make a comma.
- ㉒  - Press to backspace. Press and hold to backspace faster.



- ②③ Load Cell – Port for load cell cord.
- ②④ Load Cell – Port for load cell cord.
- ②⑤ Power – Port for Power Cord.
- ②⑥ Serial/Printer – Port, if installed, can be used to communicate with computer and other digital input/output devices such as a printer.
- ②⑦ Remote – EID reader port.
- ②⑧ Serial Number Plate – Serial Number of your Indicator.

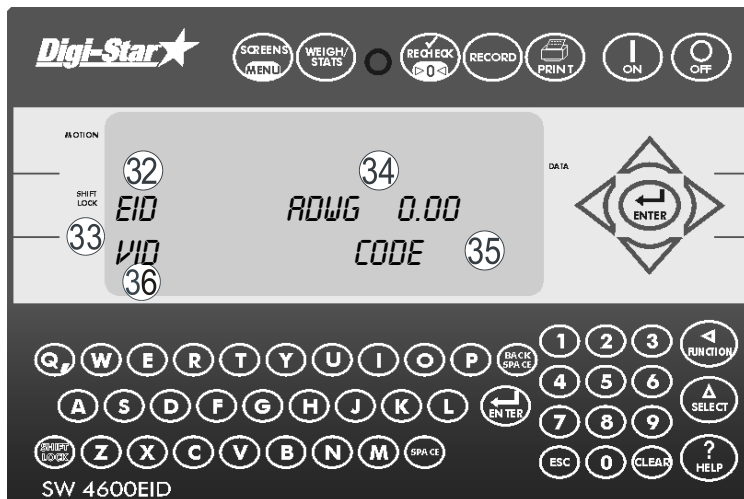
Allflex EID Stick Reader, Electronic ID & Visual ID (Optional)



- ②⑨ Electronic ID (EID) for Allflex® Wand Reader, unique to animal. (Opt.)
- ③⑩ Visual ID (VID) for Allflex® Wand Reader, may be duplicated. (Opt.)
- ③① EID Stick Reader for Allflex® Electronic ID (EID). (Opt.)

Weigh Screen

Press **WEIGH/STATS** until *WEIGH* scrolls then *0* is displayed.



32 EID – Electronic ID Number.

33 VID – Visual ID Description enter by user.

34 ADWG – Displays Average Daily Weight Gain.

Calculates using difference in current weight and last weight in memory for that animal, divides sum by number of days since last saved weight, equals Average Daily Weight Gain.

Example:

$$\text{Current weight} - \text{Last saved weight} = \text{weight change}$$

$$4500 - 4200 = 300$$



$$\frac{\text{Weight change}}{\text{Days passed}} = \frac{300}{20} = 15\text{lbs ADWG}$$

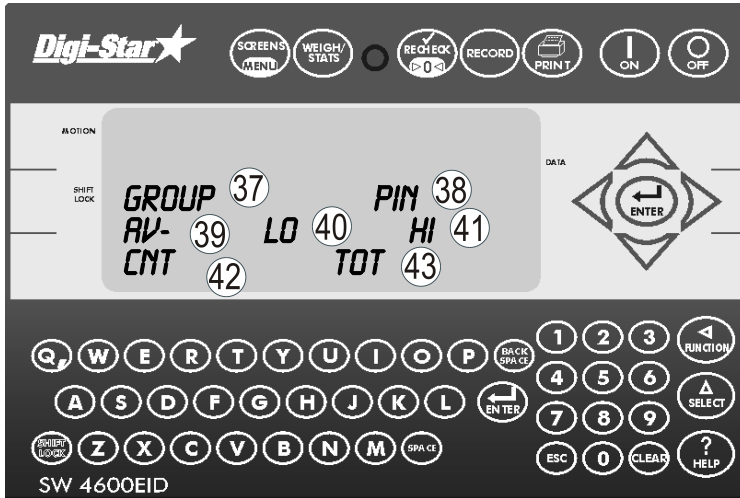
35 CODE – Enter by user.

36 QUICK DATA – Note can be added up to 26 characters. See page 11.

Stats Screen

Displays statistic information for animal records stored with the same group and premise numbers for today's date.

Press  until *STATS* flashes then  is displayed.




- ③⑦ GROUP – Assigned group number (alpha/numeric title for group of animals to be weighed).
- ③⑧ PIN – Assigned premise number (may be government issued, unique number given to farm).
- ③⑨ AV – Average weight of the day.
- ④⑩ LO – Low weight of the day.
- ④① HI – High weight of the day.
- ④② CNT – Number of records stored of the day.
- ④③ TOT – Total weight of the day.

See page 44 for installation instructions.

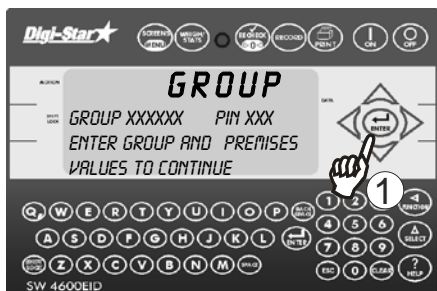
OPERATION

Turn on Indicator





1. Press .

Group/Premise Numbers

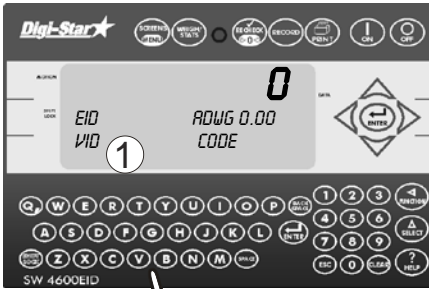


If set to ON (see page 24) ID numbers will need to be entered at start up of indicator.

1. Press  twice to accept current numbers or enter group number with keypad, press . Repeat for premise number.

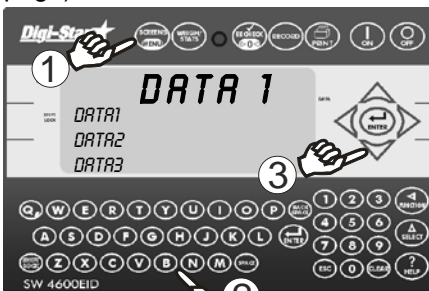
Data Fields

Notes can be added to records using the Data Field.



Quick Data Fields

There are 20 spaces available for Quick Data Fields. They can be set up on indicator or computer (see page), then transferred to indicator.



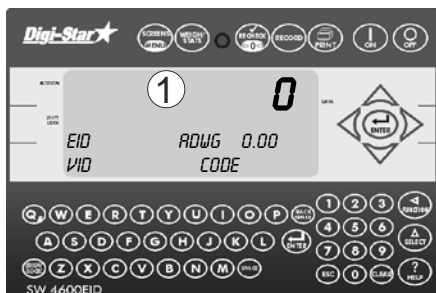
Display must be on weigh screen.


1. With cursor in data field, enter note using keypad
or
2. To enter a Quick Data Field (see below) press until *QUICKD* is displayed, press , 0 will flash in upper display.
3. Enter number of desired data field, press to save (can also press or to scroll through list then press to save).

Note: For a list of existing Quick Data Fields press until you are on the data screen and press or to scroll through list.

1. To setup Quick Data fields on Indicator press until *DATA#* is in top line of display This data field currently being edited.
2. Enter desired note on keypad.
3. Press or to edit other fields when they are displayed in top line of display.

Zero Balance Scale



1. Press and hold  zero balances scale.

Reading Eartags and Weighing Animals

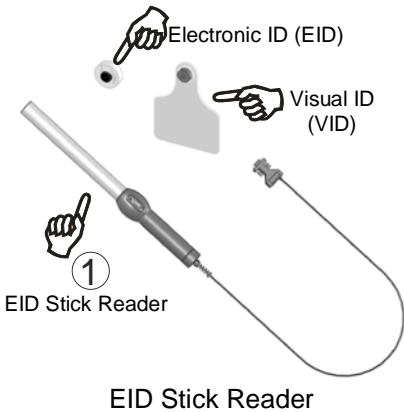
Indicator must be on the weigh or stats screen to record animal weights.



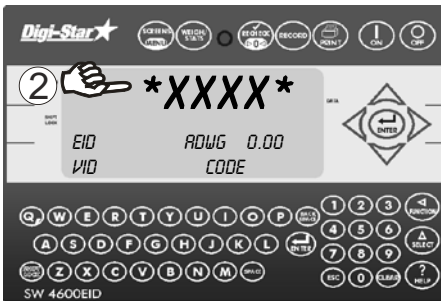
Animal on platform.

1. Indicator "Locks On" animal's weight, "L" appears in upper left of display. Display alternates between "NO EID" and weight.
2. If EID Stick Reader is not being used release animal. Weight and EID data stored.

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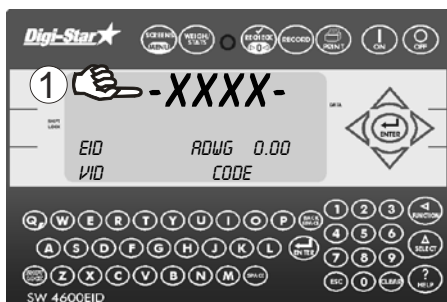
1. Press button on Stick Reader with end in range of EID. Stick Reader beeps, LED indicator turns from red to green momentarily.



2. Tag may be read any time. Last four digits of tag displayed (flanked by –) before data stored.



3. Release animal. Weight and EID data stored.



4. Once stored data flanked by *.

Notes: Each time **RECORD** pressed, one line of data is stored. Multiple entries made of same tag by pressing **RECORD** 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 Weight



1. Animal on platform, press . Weight stored/printed when animal steps off platform or  pressed.

Low Battery Indication




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  while on the weigh or stats screen during operation will run self-test.

OPTIONAL SETTINGS

Change Setup and Calibration

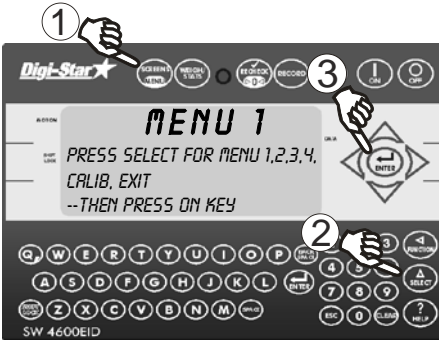






1. Press and hold  three seconds.
2. Push  three seconds.
3. Press , advances through selections.

3000LB	StockWeigh 3300 (pounds)
6600LB	StockWeigh 6600 (pounds)
10K LB	StockWeigh 10000 (pounds)
14K LB	StockWeigh 14000 (pounds)
3300KG	StockWeigh 3300 (kilograms)
6600KG	StockWeigh 6600 (kilograms)
10K KG	StockWeigh 10000 (kilograms)
14K KG	StockWeigh 14000 (kilograms)
Custom	Press  indicator, SETUP displays and then 6-digit number with right digit flashing. To change setup number, enter new number on keypad and press  . 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






1. Press & Hold , enters Menu.
2. Press  for menu options.
Press  again until desired menu shows.
3. Press  to see first option.




1. When option displayed press .
2. Press , records changes and next option.
3. Press  to exit.

Setting Options



Setting/ Display	D.A.N	Options (Bold = Default)	Description
MENU 1			
Language (<i>LANGRG</i>)	101	English (<i>ENGLISH</i>) Dutch (<i>NEDERL</i>) French (<i>FRANCS</i>) German (<i>DEUTSH</i>) Italian (<i>ITAL</i>) Portuguese (<i>PORT</i>) Spanish (<i>ESPAÑ</i>) Danish (<i>DANSK</i>) Hungarian (<i>MAGYAR</i>) Spanish (<i>VESTA</i>)	Select desired language.
Display Update Rate (<i>D-RATE</i>)	102	1,2,3,4	Update display times per seconds.
Motion Arrow (<i>MOTION</i>)	103	ON/OFF	Arrow flashes for unstable weight.
Zero Tracking (<i>ZTRACK</i>)	104	ON/OFF	Zero track adjusts to zero for build-up of snow and mud. If "ON", the scale will adjust for small weight variances (+\ -5lbs) in the Lock-On weigh method.
Weigh Method (<i>W MTHD</i>)	105	1=General, 2=Fast, 3=Slow, 4=Lock-On	Select weigh method.
Lock-On (<i>LOCKON</i>)	106	1,2,3,4,5,6,7, 8 ,9	Use lowest setting for system to lock on consistently.
Scale ID (<i>SCALE ID</i>)	108	NEW EZ	Enter new scale ID on keypad and press 



Setting/ Display	D.A.N	Options (Bold = Default)	Description
Lock-N-Hold (<i>LKNHLD</i>)	109	ON/OFF	Holds “Lock-On” weight (records after animal steps off platform). Restarts when: Next animal steps on platform or 5 min of inactivity or  is pressed.
Auto Off (<i>AUTOFF</i>)	111	15,30,45,60, OFF	Indicator shuts “OFF” after set period of inactivity. Press any key to prevent.
Lock-On Store (<i>LSTORE</i>) See Page 35	112		Configure how and when weighing data printed or sent to computer port and stored into memory on indicator during animal weighing.
		OFF (<i>OFF</i>)	<ul style="list-style-type: none"> -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 (<i>MANPRT</i>)	<ul style="list-style-type: none"> -Indicator does not accept EID data. -Indicator does not store data in memory. -Sends time, date and weight data to computer port, press . -Set PRTFMT to select desired print format.


Setting/ Display	D.A.N	Options (Bold = Default)	Description
		Automatic Print (<i>AUTPRT</i>)	<ul style="list-style-type: none"> -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 LSEND to select when data sent. -Set PRTFMT to select desired format.
Lock-On Store (<i>LSTORE</i>) Continued	112	Manual Weight (<i>MAN WT</i>)	<ul style="list-style-type: none"> -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 RECORD -Print format EID print format. -Data will print even if EID not provided.

Setting/ Display	D.A.N	Options (Bold = Default)	Description
		Automatic Weight (<i>AUTOWT</i>)	<p>-Indicator accepts EID data. -Message will not alert operator if EID data missing. -Indicator does not store data in memory. -Sends EID, time, date, weight data to computer port when scale “Locks-On” or when animal steps off platform. -Set LSEND to select when data sent to computer port. -Print format is EID print format. If LSEND “ON”, data sent to computer port when scale “Locks-On” to weight. EID must be read before animal weighed in this mode. If LSEND “OFF”, and EID not read time, date, weight data sent when animal off platform.</p>
Lock-On Store (<i>LSTORE</i>) Continued	112	Manual EID (<i>MANEID</i>)	<p>-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.</p>

Setting/ Display	D.A.N	Options (Bold = Default)	Description
		Automatic EID <i>(AUTEID)</i>	-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 LSEND to select when data printed. If LSEND "ON" and EID not read, press RECORD prints data. If LSEND "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. -If ESTORE "OFF", data not stored into indicator memory.
Lock-On Store <i>(LSTORE)</i> Continued	112	Manual Check <i>(MANCHK)</i>	-Indicator accepts EID data. -Message alerts operator EID data missing. Operator must press RECORD to print and store data with or without EID. -Sends EID, time, date, weight data to computer port and stores comma-separated values (CSV) in memory when press RECORD . -Print format EID print format. -Data stored in EID data format. -If ESTORE "OFF", data not stored into indicator memory.

Setting/ Display	D.A.N	Options (Bold = Default)	Description
		Automatic Check (AUTCHK)	<p>-Indicator accepts EID data.</p> <p>-Message alerts operator if EID data missing. Press  prints and stores data without EID.</p> <p>-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.</p> <p>-Set LSSSEND to select when data printed.</p> <p>-Print format EID print format.</p> <p>-Data stored in EID data format.</p> <p>-If ESTORE "OFF", data not stored into indicator memory.</p>
Lock-On-Store Send (LSSSEND)	113	ON/OFF	<p>Data sent when scale LOCKS-ON and EID read.</p> <p>Press  rechecks weight and send/store new data.</p>
EID Store (ESTORE)	114	ON/OFF	<p>Indicator stores data in following LSTORE modes: MANEID, AUTEID, MANCHK, AUTCHK. "StockWeigh Link" software retrieves data from memory.</p> <p>"OFF" for LSTORE modes sends data to computer port and store data into memory keeps memory from filling up.</p>

Setting/ Display	D.A.N	Options (Bold = Default)	Description
EID Auto (EIDAUT)	117	ON/OFF	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.
Scroll (SCROLL)	118	0,1,2,3, 4 ,5,6,7,8,9	Sets scroll rate of Display
Group/ Premise Number (GINPIN)		ON/OFF	GIN - Group ID Number, number assigned to pen. PIN - Premise ID Number assigned to farms (can be government issued).
MENU 2			
Time Format (TIME F)	201	24 HR AM/PM	EID Print and EID CSV Data Formats always use 24-hour time format.
Set Time (TIME)	202	XX:XX:XX	Use  increments each digit and use "ARROW" keys advances cursor to set date "mmdyy" field.
Date Format (DATE F)	203	1,2,3,4,5,6, 7 ,8	Select date format. (EID print and EID CSV data formats always use #2) 1 = mm – dd 2 = mm/dd/yy 3 = mm/dd/yyyy 4 = dd/mm 5 = dd/mm/yy 6 = dd/mm/yyyy 7 = dd/mm/yy 8 = dd/mm/yyyy
Set Date (DATE)	204	Enter XXXXXX	 changes date, "ARROWS" advance cursor to set date

Setting/ Display	D.A.N	Options (Bold = Default)	Description
One Line Print (<i>1L PRT</i>)	212	ON/ OFF	Formats printer output to one line.
Scoreboard Mode (<i>SCOREM</i>)	213	0 -10,13,21-26	Methods to output display data to scoreboard via com port. See page 39.
Auto Print (<i>APRINT</i>)	214	ON/ OFF	Pressing keys will automatically print weight values.
Print Format (<i>PRTFMT</i>)	216	AUTO	See Page 35 for details.
Zero Out (<i>ZEROUT</i>)	219		Press & hold 
Com 1 Delay (<i>C1 DLY</i>)	221	OFF ,.10,.25,.50, .75,1-5	Seconds printer delays before advancing line.
Com 2 Delay (<i>C2 DLY</i>)	222	OFF ,.10,.25,.50,.7 5,1-5	
Estimated Weight (<i>EST WGT</i>)	299	0 ,1,2,3,4,5,6,7,8,9	Enter weight on scale
MENU 3			
Display Count (<i>COUNT</i>)	301	.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 (<i>ARRANGE</i>)	302	ON/ OFF	Scale increases display count size for weights over 300 again at 600 lbs/kgs.
Display Unit (<i>LB-KG</i>)	303	LB/KG	When changing weight unit calibration adjusted so scale displays accurately in new display unit
Capacity (<i>CAP</i>)	304	4000	Enter maximum weight measurable
WM1 ADJUST (<i>WMR 1-1</i>)	305	10	Increase number to smooth weighing

Setting/ Display	D.A.N	Options (Bold = Default)	Description
WM1 ADJUST 2 (WMA 1-2)	306	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)	307	400	Enter weight to activate quick weight response.
WM2 ADJUST 1 (WMA 2-1)	311	30	Increase number to smooth weighing
WM2 ADJUST 2 (WMA 2-2)	312	10	0=OFF Use values less than WMA2-1 for quick weight response.
WM2 ADJUST 3 (WMA 2-3)	313	400	Enter weight activate quick weight response.

MENU 4

Buzzer (BUZZER)	404	1-4, ON, OFF	Decrease # shortens alarm horn
Relay (RELAY)	406	SETPNT/OFF	Set control for 12 VDC alarm Press enter @ setpnt gives option to enter value
Gross Set Point Chng (SETCHG)	424	50	Weight below SETPNT to change 12VDC alarm
SETDEL	425	0	Time before 12 VDC alarm output changes
SETOUT	426	OVER/UNDER	12 VDC alarm = +12 VDC when over or under setpnt
SETCTR	427	0, 1 ,2,3,4,5,6,7,8,9	Use keypad to enter values.

CALIBRATION

Tcalb	801	ON/OFF	Scale adjust for temperature changes
Zero	802		
Add Wt			Enter weight amount on scale

STOCKWEIGH LINK™ PC SOFTWARE

Software imports data collected by indicator. Tag number, weight, date, time and other information transmitted from indicator to PC and then can be output in Adobe Acrobat, Microsoft Excel®, Web Page or CSV file formats.

Getting Started

This section includes steps to install software and run using default settings. Review this section before beginning installation process.

Read Software License Agreement

Read Digi-Star® software license agreement on page 41. Breaking seal on CD, and install software, you agree to terms of license agreement.

Minimum System Requirements

Make certain your PC includes following:


Microsoft Windows XP or Vista with 500 Meg Free disk space, 500 Meg Ram, CD Drive, mouse, printer, serial port or USB port and USB to Serial Port Adapter

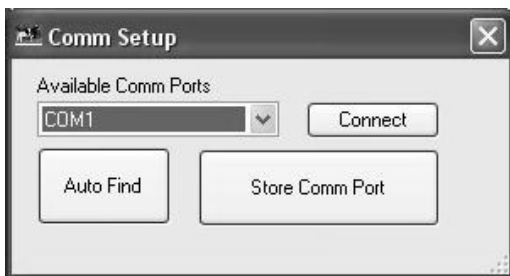
Notes: A USB to Serial Port Adapter used if PC does not have a free serial port. Certain programs interfere with operation of serial port / StockWeigh Link™. Programs include Palm Desktop and some auto ID software. Shut off these programs when reading / writing to indicator. Failure to shut off these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

Installing 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 appears. Follow installation instructions.
3. Disconnect computer from StockWeigh computer port.
4. Double-click StockWeigh Link icon starts program.
5. 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.



Comm Port Setup

6. Open Utilities/Comm Port Setup and the program will search the current comm Port. Choose Auto Find if it does not find the indicator.



Receiving Data

Click the Retrieve Data button to retrieve all of the information on the indicator. After retrieving the data it will ask if you want to clear the indicator.

Note: If you do not clear the indicator and Retrieve the data again without deleting the data from the PC, it may duplicate records on reports.



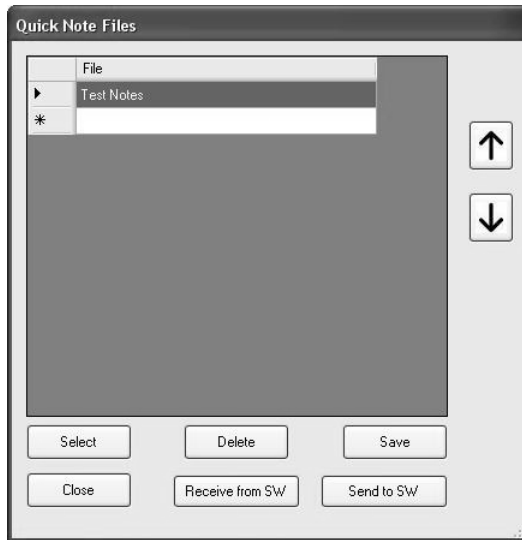
Clearing the Indicator

Click the Clear Indicator button to clear the indicator's stored data.



Quick Notes

Click the Quick Notes button to enter the Quick Notes area.

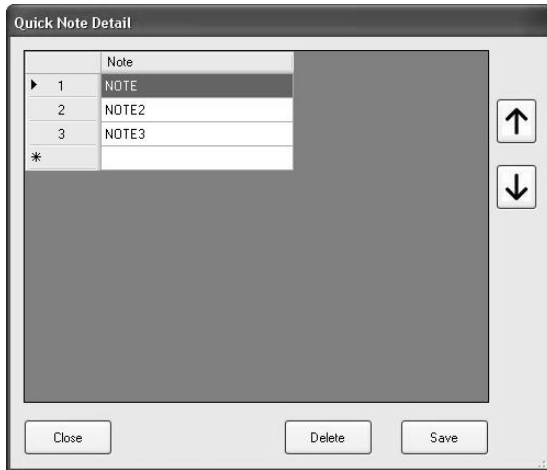


You can have as many “Files” of Quick Notes as you want. Each File consists of maximum of 20 Quick Notes.

To Add a Quick Note File: Click in the box next to the * (the bottom row) and then type in the name of the File you want to add, then click “Save”.

- To Delete a Quick Note File: Click on the name of the File you want to delete and click Delete.
- To Receive Quick Notes from the Indicator: Click the name of the File you want to store the Notes in and then click Receive from SW.
- To Send Quick Notes to the Indicator: Click the name of the File you want to send the Notes from and then click Send to SW.

To Edit a Quick Note File: Double click the name of the File you want to edit or single click the name of the File you want to edit and click Select.

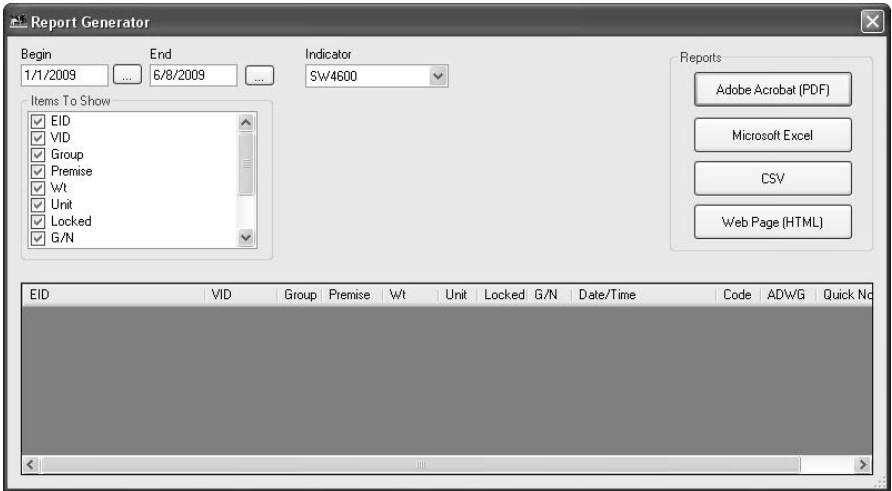


- **To Add a Quick Note:** Click in the box next to the * and type in note. Then click Save. Note: Each Quick Note can only be 26 characters long.
- **To Delete a Quick Note:** Click on the note you want to delete and click Delete button
- **To Re-sort the Quick Notes:** Click on the note you want to move and click the Up or Down arrow buttons.



Report Generator:

Click Report Generator to enter.



- **Begin and End:** Adjust these by clicking the button “...” next to each one to change what data is shown.
- **Items to Show:** Adjust what columns of data are displayed by checking and unchecking the boxes.
- **Indicator:** Stockweigh Link will automatically change this to the indicator model that the most recent data collection was from.
- **Reports:** Clicking on a report format will display the information in the lower grid into that format. Some report formats require additional software to be installed on your PC.

EID READER – OPTIONAL

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

Allflex™ Stick Reader reconfigures output format if button depressed while powering “ON”. Don’t lay stick reader with button down while applying power.

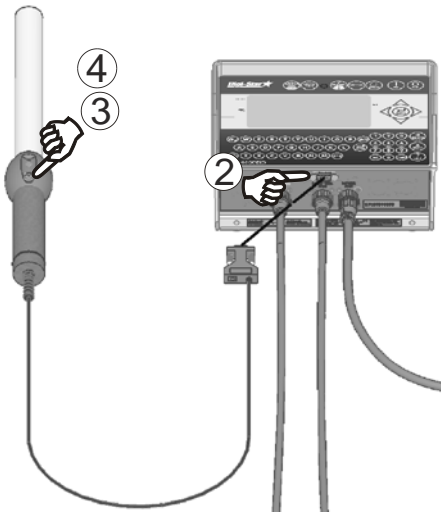
Depending on model, Allflex™ Stick Reader gets its power from “EID Reader” port or internal battery.

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

Re-Configuring Allflex Stick Reader



1. Press **OFF**.
2. Connect Stick Reader to EID Reader port.
3. Press and hold "READ" button on Stick Reader while pressing **ON**.
4. After 2 seconds, Stick Reader responds with 6 flashes and 6 beeps. Release "READ" button.
5. Press **ON** to start self-test. Indicator scrolls **"ENTER "ON" TO CONTINUE OR PRESS "ENTER TO RESET EID READER"**, press **ENTER** to re-configure Stick Reader to TIRIS 2000 output format.
6. Re-configure successful, indicator displays "GOOD". Indicator displays "ERROR", try procedure again.



Contact Digi-Star Technical Service if problems persist.

WEIGH METHODS

Select weigh method #4 in menu 1 for animal weighing. EID features require indicator set this mode. Using StockWeigh for stable loads, Lock-On Weigh method ok. Other methods listed below.

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

General Weigh Method #1

All purpose weigh method for weighing stable loads.

Slow Weigh Method #2

Higher accuracy weighing for stable loads.


Fast Weigh Method #3

Determines new weight quickly. This method is for weighing stable loads.

Lock-on Weigh Method #4

Weigh active animals and display stable accurate weight. Set to "OFF" for weighing stable weights. Lock-On sensitivity adjusted using "LOCKON" menu.

Once actual weight displayed, scale "Locks-On" to weight. Weight display stable, even if motion never stops. Small 'L' appears on left side of display indicating weight "Locked-On." Animal's weight must be greater than 2.5% of scales "capacity" weight before system can "Lock-On."

To break lock, add or remove 50% of displayed weight. "Locked-On" weight can be "rechecked", press  this breaks "lock" and scale recalculates weight.

EID DATA FORMATS

Data output thru computer port and stored in computer or printed.

“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

Explanation of StockWeigh print formats. Comma Separated Values (CSV) makes it easy to input scale data into PC spreadsheet and data base programs.

Note: Appearance of printouts affected by option settings of 1L PRT, TIME F and DATE F.

AUTO - “LSTORE” set to “MANPRT” or “AUTPRT” and “PRTFMT” set to “AUTO”, standard EZ indicator print format 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 <CR>, <LF>. Print example:

```
635LB$GR
```

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

DT+TM - 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 - 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"
```

IDWTTM - Includes ID, weight, display unit, '\$' if unit "locked on", weight tag (GR, M+, etc...), date, time. Ends with <CR>, <LF>. Print example:

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

ANIMAL - 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 pressed), Average Weight, Gross weight on scale, ID, date and time. Ends with <CR>, <LF> . Print example:

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

3200 A - See service bulletin # 19

3200 B - See service bulletin # 20

32 TMR - See service bulletin # 19

BATCH1 - Contact Digi-Star technical support

FDINFO - Contact Digi-Star technical support

WTRCTM - Includes basic weighing information.

Includes Gross Weight, display unit, weight tag (GR, M+, etc.), Total Rotation Count, Date & Time. Ends with <CR>, <LF>. Print example:

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

EIDINF - Includes EID memory status information. Ends with <CR>, <LF>. Response from StockWeigh indicator:

"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 - Includes EID tag number if available, weight info, date, 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 StockWeigh indicator supports EID memory storage.

Following “LSTORE” modes automatically configures 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

AUTEID - Automatic

EID MANCHK - Manual Check

AUTCHK - Automatic Check

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 varies in number of characters, spaces etc. Refer to Allflex™ Stick Reader user manual for more information.

```
C>XXXXX>X>XXX>XXXXXXXXXXXXX,
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, other information. Eight data fields each separated by 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 store EID CSV data into indicator memory. MANEID Manual

EID AUTEID - Automatic

EID MANCHK - Manual Check

AUTCHK - Automatic Check.

Data formatted as CSV file and transferred to PC.

Example of two data lines. Note that 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, M<cr><lf>
```

EIDVID Data Format

Indicator response will be as follows:

```
<RS>EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE, vvvvvvv, rrrrrrr, ppppppp, wwwwww, kk
$, gg, mm/dd/yy, hh:mm, ccc, aaaaaa, nnnnnnnnnnnnnnnnnnnnnnnnnnnnn, C<CR><LF>
```

- <RS>=Right Shift' [1E] hex or [30] decimal
- EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE =EID tag (29 alphanumeric characters)
- vvvvvvv =VID tag (7 alphanumeric characters)
- rrrrrrr.....=Group ID (7 alphanumeric characters)
- ppppppp.....=Premise ID (7 alphanumeric characters)
- wwwwww.....=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)
- nnnnnnnnnnnnnnnnnnnnnnnnnnnnnn . . =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 send numeric display data out RS232 port periodically while other methods send data stream as described below.

1. Transmit numeric display data once per second.
2. Transmit numeric display data two times per second.
3. Transmit numeric display data three times per 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 display weight changes.
7. Transmit status data string every second. Status data string includes weight, rotation counter data, date, time.
8. Transmit status data every five seconds. Status data string includes weight, rotation counter data, date, time.
9. Reserved.
10. Transmit EID data string every 2 seconds.
13. Transmit EIDVID data string every 2 seconds.

Note: When using SCOREM = 1, 2, 3, 4, 5, 6 and 9 set LSTORE = OFF, TAREAP = OFF, APRINT = OFF avoids corrupted data when transmitting scoreboard data and printing scale data.

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

WEIGHING ERRORS

OVRCAP

Capacity Limit:

Weight on scale system exceeds capacity limit. Capacity value entered in SETUP to warn of overloading scale system.

+RANGE

Over Range:

Weight on scale system exceeds maximum weight. Over range value always system's maximum A/D counts multiplied by scaling factor. Actual weight which over range occurs depends on calibration, zero, display count size.

-RANGE

Under Range:

Weight on scale system less than minimum weight. Under range value always system's minimum A/D counts multiplied by scaling factor. Actual weight at which under-range occurs will depend on calibration, zero, display count size.

Note: EZII Series supports –RANGE that is equal to +RANGE in absolute value.

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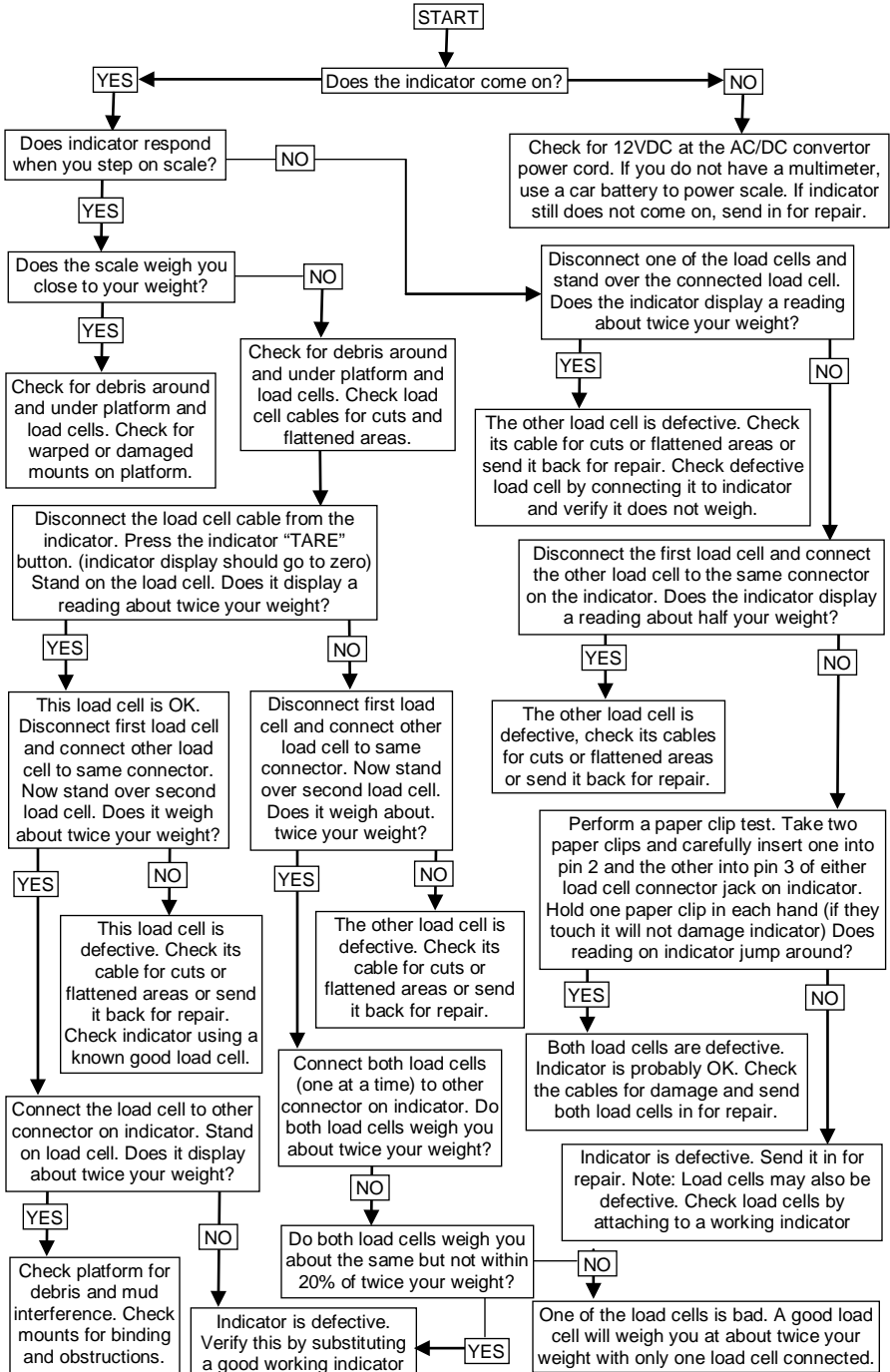
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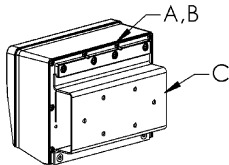
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TROUBLESHOOTING

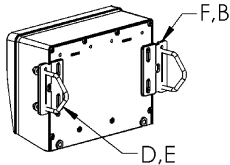


INSTALLATION

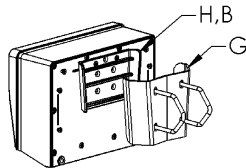
Indicator Mounting



RAIL MOUNT

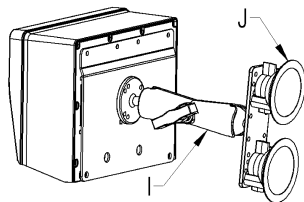


WING MOUNT



WEDGE MOUNT

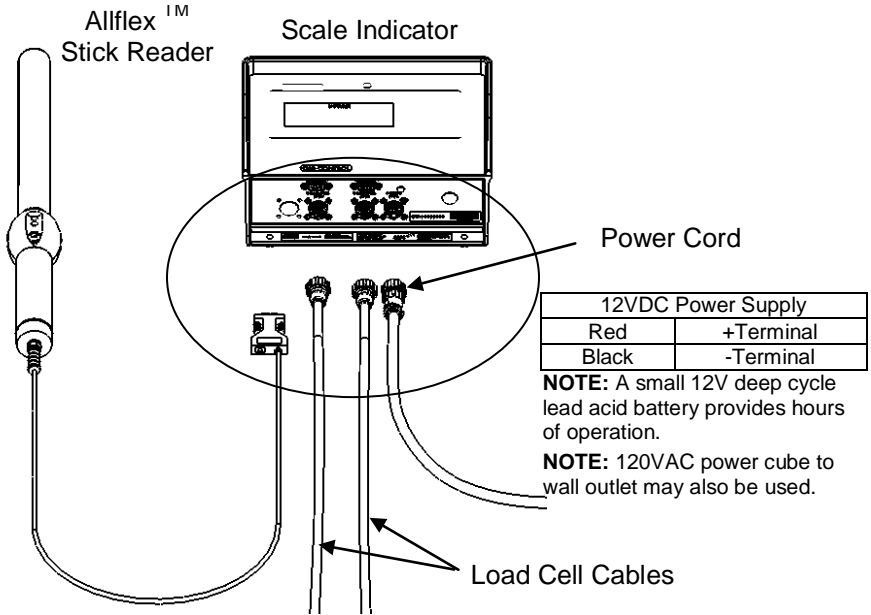
KEY	PART NUMBER	DESCRIPTION
A	404353	BRACKET-EZ3 PLASTIC RAIL *
B	403780	SCR-#10 X 5/8 FHSTS BLACK ZP
C	840459	SUPPORT-HAT BRACKET
D	405069	U-BOLT 1/4-20 X 3.25 ZP
E	405084	NUT-1/4-20 TOP LOCKING FLANGE
F	403770	BRACKET- WING MOUNT *
G	405124	PACK-WEDGE MOUNT BRACKET WITH U-BOLTS & FLANGE NUTS
H	405244	EZ3 WEDGE MOUNT



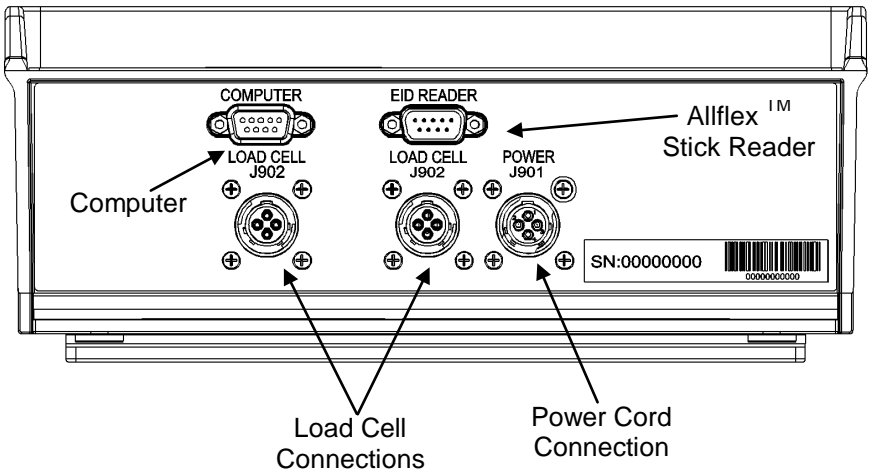
RAM MOUNT

KEY	PART NUMBER	DESCRIPTION
I	404799	RAM MOUNT FOR EZ III INDICATOR WITH HARDWARE
J	404230	RAM SUCTION CUP W/TWIST LOCK

Cable Connection



Indicator Connection Diagram



Bottom Panel Cable Connections