TOPCON Agriculture

SCALE LINK CONTROL
SLC 2810

OPERATORS MANUAL

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D4195-EN SLC2810 Operator's Manual LCC

Table of Contents

1.0 PRODUCT OVERVIEW

Thank you for your purchase of a SLC2810 indicator. Your SLC2810 is the culmination of more than 30 years of agricultural weighing engineering and expertise. With proper operation and preventive maintenance, it will last for many years.

1.1 SLC2810 Scale Link Control Functions and Uses

The SCL2810 is designed to work exclusively with a Digi-Star Scale Link. The SLC2810 functions as both a remote display and as interface to the Scale Link that allows changes to setup and settings.

Use of the SLC2810 outside of its intended purposes may result in damage to instrument.

This SLC 2810 connects to any of these Scale Link models configured with a SLC interface connector;

- SL2110
- SL2140
- SL2210
- SL2220
- SL2240
- SL100, SL200, & SL300 Legacy Scale Link Systems

The SLC 2810 has a large 1.7" six-digit display. There is a numeric key pad to setup and control the Scale Link 2 system.

Note: SLC2810 number key pad will not work with legacy SL100, SL200 and SL300 systems.

Additional Document information listed below;

D4196- Scale Link 2000 ISO Operation Manual
D4197- SL2 Series Installation Manual
D4020-Direct Access Numbers (D. A. N.)
D4204- SL2 Tech Manual

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1.3 Technical Specifications

SIZE	10.25” long x 8.0” high x 4” wide (260mm x 190mm x 105mm)
WEIGHT	4.5 lbs. (2.04 Kg)
HELP MESSAGES	Long messages are scrolled
LOAD CELL EXCITATION	8 volts D.C. Nominal, Capable of driving ten 350 Ohms transducers, Short circuit proof
AUTO TEMPERATURE COMPENSATION	Of internal circuitry for high accuracy weighing measurements
LOAD CELL SIGNAL	Compatible with Load Cells with greater than 0.25 mv/v
CONNECTORS	AMP plastic weather resistant circular connector. Gold plated contacts.
POWER REQUIREMENTS	Power provided by Scale Link system, 11.0 to 16.0VDC 150mA nominal. **DAMAGE WILL OCCUR AT VOLTAGES EXCEEDING THIS SPECIFICATION. IF THE SLC2810 IS TO BE CONNECTED TO A SCALE LINK THAT IS POWERED BY A 24 VOLT SYSTEM THEN THE SLC2810 MUST BE PROVIDED WITH A SEPARATE 12VDC POWER SOURCE.**
SET UP AND CALIBRATION	Via front panel or USB
GROSS RANGE	999,999 max.display
LOW BATTERY WARNING	Enabled at 10.5V nominal
POUND / KILOGRAM	Selectable
DISPLAY	6 Digit Chip On Glass LCD 1.7” high
DISPLAY RESOLUTION	.01, .02, .05, .1, .2, .5, 1, 2, 5, 10, 20, 50, 100
DISPLAY UPDATE RATE	Selectable: 1, 2, 3, 4 times/sec.
MAX. DISPLAY RESOLUTION	Adjustable to 40,000 counts max.
ZERO TRACKING	Selectable, On/Off
SPAN ACCURACY	±(.1% + .005%/ °F) or (.1% + 0.009% °C) full scale ± 1 output count
MOTION DETECTION	Selectable, On/Off
ZERO ACCURACY	(.005%/ °F) or (0.009% °C) full scale ±1 output count for 0.5 mv/v transducer
ENVIRONMENTAL ENCLOSURE	IP65, IEC 529
WEIGH ALGORITHM	3 internally selectable digital filters to optimize performance (General, Slow, and Fast)
HOLD MODE	Used in mobile applications to stabilize displayed weight while moving the scale
NON-VOLATILE MEMORY	Standard
OPERATING TEMP	-29°C to 60°C -20°F to 140°F
2 REMOTE INPUTS (Power/Remote ports)	Tare / Print / Hold / Net Gross / M+ / Zero / TR Hold / Re-enter Preset / Switch
REMOTE PORT Power Output	2 x Large Display LED Remote Displays (RD4000) or 3 x Standard Display Remote Displays (RD2500V)

1.4 Safety During Use

Safety Alert Symbols

Safety Alert symbols are used to draw attention to possible dangers. These symbols and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate the danger. The instructions or warnings they give are not substitutes for proper accident prevention. These safety instructions are not meant to cover every possible condition that may occur. If question arise, call Digi-Star LLC at 800-225-7695

 **Danger: Indicates an imminently hazardous situation that, if not avoided, could result in death or very serious injury.**

 **Warning: Indicates a potential hazardous situation that, if not avoided, may result in death or very serious injury.**

 **Caution: Indicates a potential hazardous situation that, if not avoided, may result in a minor injury.**

IMPORTANT! Signals special mechanical information

Exposure to Radio Frequency
Exposure to energy from radio frequencies is an important safety issue. As this product uses the WiFi and Cellular system of a smartphone or tables please consult with the safety information provided with the device that the App operates with.

Prior to Operation
Read and understand this manual and learn all controls before you use the equipment.
Check that the area is clear of people, animals, and obstacles before starting any work.
Identify possible hazards.

Check system before use
Digi-Star cannot be held responsible for deviations and problems arising from incorrect use of the SLC2810, incorrect calibration, or settings. Furthermore, Digi-Star cannot be held responsible for deviations and problems arising from technical problems to the system.

IMPORTANT!
Cleaning:
Do not use pressurized running water (high pressure cleaners, hoses nozzles, etc.) to clean the indicator. Water ingress and damage to the indicator may result. Use soapy water and a sponge or cloth for best results.

Battery Charging and Welding
Disconnect all cables from the scale indicator before charging the battery or welding on the machine. If cables are left connected, the scale indicator, optional devices, and connected load cells could be damaged. It is also recommended to not place the welding ground so that welding current and voltage flows through any load cells. Secure the welding ground to prevent welding current and voltage from flowing through load cells.

2.0 OPERATION

2.1 Scale Link Control Overview

① ZERO – Press and hold for 3 seconds to zero balance.

② **Alarm Light** – Flashes and buzzer sounds when weight reaches the Preset amount.

③ – Holds displayed weight press again to release.

④ TIMER COUNTER – Mixing time runs down, alarm sounds.

⑤ ON – **ScaleLink2 power comes from ISOBUS or other power source.** "ON" key saves changes and advances to next feature.

⑥ OFF – Non-functional, does not turn power off.

⑦ **Display Window** – Displays current actions.

⑧ TARE – Temporary zero (Net mode).

⑨ – Option – Not currently utilized.

⑩ NET GROSS – Toggles between Net and Gross weights.

⑪ – Saves changes and advances to next feature.

⑫ **Keypad** – Input numbers or letters as required.

⑬ 

– Option – Not currently utilized.

⑭ 

– Clear current command.

⑮ 

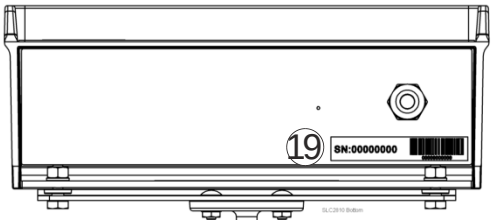
– Performs tasks displayed by Select key.

⑯ 

– Displays menus and additional tasks.

⑰ 

– Shows additional information for last key pressed.



⑱ **SLC Junction Box Cable** – Cable to connect SLC2810 to SLC junction box.

⑲ **Serial Number Plate** – Serial number of indicator.

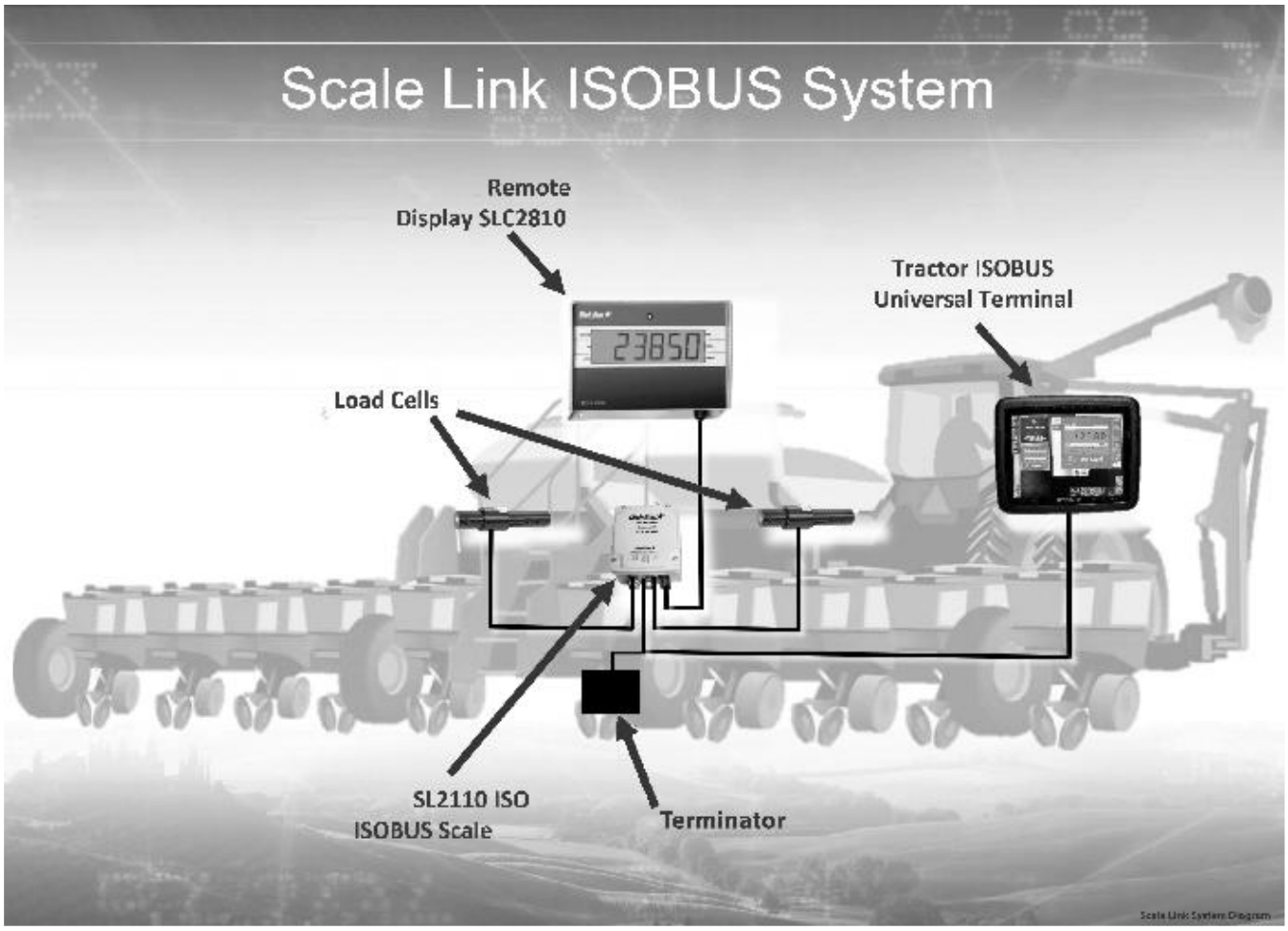
IMPORTANT!
Power to the Scale Link Control (SLC) is provided from the Scale Link SL2110, SL2140, SL2210, SL2220, or SL2240. The 

and 

keys on the front panel cannot turn power on or off.

IMPORTANT!
If the SLC2810 is to be connected to a Scale Link that is powered by a 24 volt system then the SLC2810 must be provided with a separate 12VDC power source. Failure to follow this instruction will result in damage to the SLC2810.

2.2 Overview of Scale Link ISOBUS System and Basic Operation



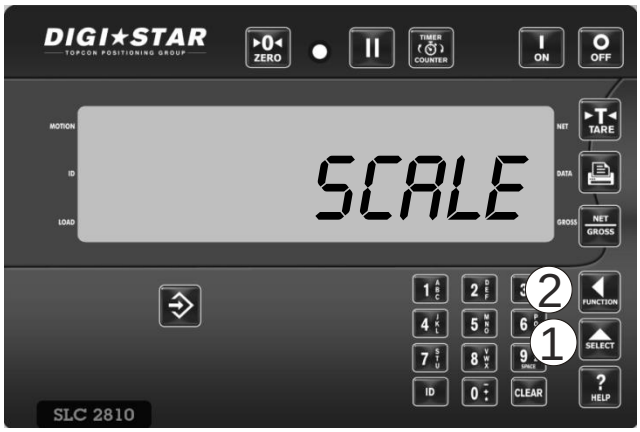
The Scale Link Control, SLC2810, is a multi-function display terminal that is used with the Digi-Star Scale Link to function as a Remote Display and Control Interface for the Scale Link.

The SLC2810 also works in conjunction and in parallel with the ISOBUS Universal Terminal by displaying the weight in the chosen bin, hopper, or platform, and provides a means to change the selected bin, hopper, or platform, and to Tare the weight (set a temporary zero) to allow precise loading or unloading.

The SLC2810 allows the operator to view, control, change settings, and diagnose the Scale Link without needing to go back and forth between the implement to the tractor cab.

2.2.1 Changing Scales (For SL2140, SL2220, & SL2240 Systems Only)

For Scale Link systems have two or more separate scales combined into one system use the following procedure to display the scale of choice.



1. Repeatedly press SELECT until *SCALE* appears on the display.
2. Press FUNCTION to increment through available scales on the system.

2.4 Zero Balance Scale

Zero Balance is used to tell the scale system that the bin, hopper, or platform is empty. Do not use Zero Balance without verifying that the scale system is empty.

1. Press and hold ZERO for 3 seconds to zero balance the scale.

Flashing arrow points to GROSS next to the display window, scale ready to weigh.

2.2.2 Tare and Net/Gross

Tare is a temporary zero (Net Weight). Net/Gross cycles from Net to Gross (total) weight.

1. With the weight loaded or unloaded displayed, press TARE to set a temporary zero weight. Flashing arrow on side of display points to NET.
2. To display total weight (Gross Weight) press NET GROSS. When Gross Weight is displayed flashing arrow points to GROSS.

Tare and Net/Gross Weight Example (Continued)

1. With scale in the NET mode after pressing TARE, add more weight (in this example 1000 lbs or kg).

2. To know total gross weight, original 2000 plus added 1000, press NET GROSS to show 3000, flashing arrow points GROSS.

3. Press NET GROSS again and 1000 is displayed flashing arrow points NET.

4. TARE may be pressed again to set another temporary zero.

3.0 ADVANCED OPERATION

3.1 Timer

Timer provides a Stopwatch function.

1. Press TIMER COUNTER.

2. Timer will be displayed HH:MM:SS.

3. Enter hours, minutes and seconds using keypad. Press →. Timer will begin counting to zero. When zero is reached, alarm will sound. Press → to cancel alarm.

3.2 Hold Mode

Hold mode prevents displayed weight from changing while moving. Hold is utilized when precise weight readings must be maintained and the loading or unloading of the scale system is stopped and the implement the scale system is part of is moved and then the loading or unloading restarts.

1. Press ⏸ holds the displayed weight, indicator flashes weight and *HOLD*.
   Press ⏸ again to return back to normal weighing.

2. If weight added while in hold mode, pressing ON cancels Hold.

3.3 Preset

The Preset function aids in precisely loading or unloading of a bin, hopper, or platform. When the Preset weight is achieved the alarm buzzer will sound and the alarm light will illuminate.

1. Enter desired preset weight to load or unload.
2. Press  (Note: display rounds weight to nearest display count.)
3. After the Preset weight is entered the display counts down to zero, whether loading or unloading, at which point the alarms come on.

3.3.1 Clear Preset

1. Press CLEAR to clear Preset value.

3.3.2 Preset Load

1. Press NET GROSS.

As ingredients load or unload display counts up or down to preset value alternates between flashing word *PRESET* and amount, until 5 percent of weight is loaded or unloaded.

3.3.3 Load/Unload Mode

1. Press NET GROSS .

Displays amount remaining to load or unload. As ingredients are loaded or unloaded, display counts down from entered weight to zero.

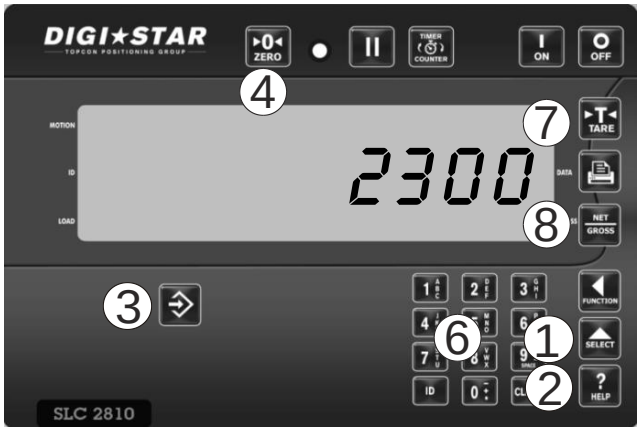
3.3.4 Net Mode

Displays weight added since preset entered. As ingredients are loaded or unloaded display counts up or down

1. Press NET GROSS twice.

3.3.5 Preload a Tare

For weighing bin after loading to exclude the weight of the bin. If weight of bin is known, a Tare weight is preloaded in indicator and only the Net weight of the product is displayed.

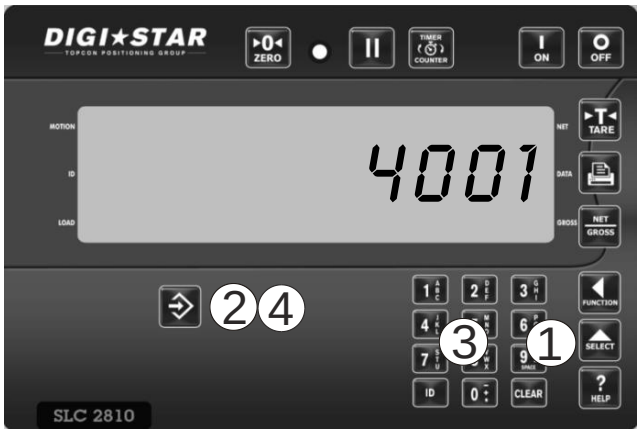


1. Enter 1103, then press SELECT to access Pre-Tare.
2. Press SELECT to enable the option.
3. Press to return to weighing mode.
4. Press and hold ZERO for 3 seconds to zero balance the scale.
5. Add weight to container.

6. Enter known weight of unloaded container.
7. Press TARE
8. Press NET GROSS

3.3.6 Pre-Alarm

Pre-Alarm is an “Early Warning” to indicate that the weight change is approaching the Preset. Pre-alarm can be set to activate by either a predefined Weight or Percentage of the Preset value.



1. Enter 4001 press SELECT.

   Repeatedly press SELECT to choose Weight or Percent.
2. Press .
3. Enter the Weight or Percent to activate the Prre-Alarm.
4. Press stores setting.

3.4 Rotation Counter (Option – Not available on all models)

The Scale Link can be configured to count the rotations of a turning shaft. This function can be useful for determining operating hours of operation and for assisting in maintenance needs. This function also requires an optional Rotation Sensor Kit.

The Rotation Counter allows:

- Hour Meter
- Rotation Count Down
- Re-Start Rotation Counter
- Setting Drive Ratio
- Maintenance Message

Contact your OEM Dealer or Digi-Star for additional information.

4.0 SETUP/CALIBRATION

4.1 Viewing and Changing Setup & Calibration Numbers

The Scale Link utilizes a shorthand “Setup” number that determines how the scale displays the weight, and a “Calibration” number for each scale system that matches the load cells to the Scale Link and determines the weight value that is displayed.

4.1.1 Setup Number

1. Enter 8711, press SELECT
2. Indicator shows *SETUP* briefly then shows a 6 digit number on LCD. This is the current Setup Number. Enter new number if required.
3. Press ⇨ to save.

NOTE: Press and hold CLEAR for 2 seconds, to clear all numbers from display.

4.1.2 Calibration Number

1. For a single scale system, or with the desired scale of a multi-scale system displayed, enter 8712 and press SELECT
2. Indicator shows *CAL* briefly then shows a 6 digit number on LCD. This is the current Calibration Number. Enter new number if required.
3. Press ⇨ to save.

NOTE: Press and hold CLEAR for 2 seconds, to clear all numbers from display.

4.2 Calibrating the Scale System

The Digi-Star Scale Link can be mated to many different types of load cells with varying outputs and capacity. There can be as few as 1 to as many as 16 load cells on a system, based on the system design and load cell types.

CALIBRATING THE SCALE FOR MAXIMUM ACCURACY

To accurately calibrate the scale a known weight that that is at least 20% of the scale system's capacity is required. For best results use as much weight as possible.

4.2.1 Calculated New Calibration Number Method

1. Look up the current Calibration using instructions 4.1.2 above
2. Zero-Balance the scale so the display reads zero.
3. Add an known **actual weight** on the scale platform and write down the **displayed weight**.
4. Perform the following equation to find the Corrected Calibration Number.

$$\frac{\text{Actual Weight} \times \text{Existing Calibration Number}}{\text{Displayed Weight}}$$

Example:

Actual Weight	2000lbs
Displayed Weight	2080lbs
Existing Cal Number	32500

$$\frac{2000 \times 32500}{2080} = 31250$$

31250 is the "Corrected Calibration Number".

5. Enter the "Corrected Calibration Number" using the instructions 4.1.2 above.

4.2.2 Calibration Match Method

For a single scale system, or with the desired scale of a multi-scale system displayed.

1. Zero-Balance the scale so the display reads zero (0)
2. Add a **actual weight** on the scale platform, note the **displayed weight.**
3. Enter 8124 and press 

. Follow the instructions on the display.
   - **a.** Enter the **displayed weight** and press ON.
   - b. Enter the **actual weight** and press ON.
   - c. If Calibration change is significant a warning will be shown.

5.0 DIRECT ACCESS NUMBERS (DAN #'S)

5.1 Options Changed by User

1. Enter the D.A.N. number on the numeric keypad and press 

.

2. Use the ARROW or 

keys to cycle through the available options or use the numeric keypad to enter a required number.

3. Press  to save setting and next option for menu displays.

SETTING [display]	D.A.N NO.	OPTIONS [displayed]	DESCRIPTION
ISOBUS			
ISOBUS WEIGHT (ISO WT)	2701		Select rate to broadcast ISOBUS weight data.
ISOBUS BASE ADDRESS (ISOADR)	2702		Assign starting base the ISOBUS gateway should address claim.
USE ISOBUS DDI VALUES (ISODDI)	2704		If ON – Send ISO WT using ISOBUS DDI's 229 & 232. OFF – Use D/S legacy DDI's
ISOBUS VT INSTANCE NUMBER (ISOINT)	2705		Preferred virtual terminal instance to display mask on.
CAN MESSAGE TYPE (CANMSG)	2711		Allows for entry of a proprietary can message type.
CAN MESSAGE INTERVAL (CANINT)	2712		Allows for editing of the interval time for the CANMSG output.
MOTION & WEIGHT			
A,B,C,D DISPLAY FORMAT (ABCDSP)	3091		Select the single (A, B, C, D), Total (A+B+C+D), or Combined (1 scale, 2-4 inputs) for ABCD scales.
ANALOG LOW WEIGHT (LOW WT)	3201		Enter analog weight value to equal 4mA or 0 volts.
ANALOG HIGH WEIGHT)	3202		Enter analog weight value to equal 20mA or 5 volts.
ANALOG SELECT (ANAOUT)	3203		Select 0-5V or 0-20mA output.
NEGATIVE ANALOG OUTPUT (-ANALG)	3204		Allow 4-20mA to output weight values less than Analog low weight.
ANALOG OUTPUT TEST (ANTEST)	3209		Select output for testing. Normal, Min, Max, or Saw

SETTING [display]	D.A.N NO.	OPTIONS [displayed]	DESCRIPTION
COMMUNICATION PORT MAPPING			
OPSTAT PORT (OPSTAT)	5007	OFF, COM1, COM2, or COM3	Set opstat port
DDL PORT (DDLPRT)	5009	OFF, COM1, COM2, or COM3	Sets DDL port.
20MA MIRROR PORT (20MAMR)	5011	OFF, COM1, COM2, or COM3	Sets port for 20MA signal to mirror.
RECIPE PORT (RECPRT)	5012	OFF, COM1, COM2, or COM3	Sets recipe output port.
GPS PORT (GPSPRT)	5013	OFF, COM1, COM2, COM3, or COM4	Sets GPS output port.
CAN PORT (CANPSPRT)	5111		Used to send a specific message via the CAN bus.
DEBUG PORT (DBGPRT)	5999	OFF, COM1, COM2, or COM3	Sets internal debug port.
MULTI SCALE SYSTEM SPECIFIC SETTINGS THE 7000 SERIES SETTINGS BELOW ONLY APPLY TO SCALE LINK MODELS: SL2140, SL2220, & SL2240 SCALE PLATFORM A			
SCALE ID SETUP (SCALID)	7101		Identity of scale location.
WEIGH METHOD (WMTHD)	7103	1-General 2-Slow 3-Fast 4-Lock	Select weigh method.
DISPLAY UNIT (LB-KG)	7104	LB-pounds KG-Kilograms	Display pounds or kilograms
CAPACITY (CAP)	7106		Enter MAXIMUM weight measureable on scale.
WM1 ADJUST 1 (WMA1-1)	7107	2-100	Increase this number to smooth the weighing.
WM1 ADJUST 2 (WMA1-2)	7108	0 = off	Use value less than WMA1-1 for quick weight response.
WM1 ADJUST 3 (WMA1-3)	7109		Enter the weight to activate quick weight response.
WM2 ADJUST 1 (WMA2-1)	7111		Increase this number to smooth the weighing.
WM2 ADJUST 2 (WMA2-2)	7112	0 = off	Use value less than WMA2-1 for quick weight response.
WM2 ADJUST 3 (WMA2-3)	7113		Enter the weight to activate quick weight response.
MOTION (MOTION)	7114		If ON – motion arrow flashes for unstable weight
MOTION WEIGHT (MOT WT)	7115		Enter weight used to detect Motion. 0 = Standard Motion Detection
TARE AUTO PRINT (TAREAP)	7116		If ON – tare will auto print displayed weight.

SETTING [display]	D.A.N NO.	OPTIONS [displayed]	DESCRIPTION
SAVE TARE (SAVTAR)	7117		If ON – Indicator will save tare weight to non-volatile memory.
SCALE PLATFORM B			
SCALE ID SETUP (SCALID)	7151		Identity of scale location.
WEIGH METHOD (WMTHD)	7153	1-General 2-Slow 3-Fast 4-Lock	Select weigh method.
DISPLAY UNIT (LB-KG)	7154	lb-pounds Kg-Kilograms	Display pounds or kilograms
CAPACITY (CAP)	7156		Enter MAXIMUM weight measureable on scale.
WM1 ADJUST 1 (WMA1-1)	7157	2-100	Increase this number to smooth the weighing.
WM1 ADJUST 2 (WMA1-2)	7158	0 = off	Use value less than WMA1-1 for quick weight response.
WM1 ADJUST 3 (WMA1-3)	7159		Enter the weight to activate quick weight response.
WM2 ADJUST 1 (WMA2-1)	7161		Increase this number to smooth the weighing.
WM2 ADJUST 2 (WMA2-2)	7162	0 = off	Use value less than WMA2-1 for quick weight response.
WM2 ADJUST 3 (WMA2-3)	7163		Enter the weight to activate quick weight response.
MOTION (MOTION)	7164		If ON – motion arrow flashes for unstable weight
MOTION WEIGHT (MOT WT)	7165		Enter weight used to detect Motion. 0 = Standard Motion Detection
TARE AUTO PRINT (TAREAP)	7166		If ON – tare will auto print displayed weight.
SAVE TARE (SAVTAR)	7167		If ON – Indicator will save tare weight to non-volatile memory.
SCALE PLATFORM C			
SCALE ID SETUP (SCALID)	7201		Identity of scale location.
WEIGH METHOD (WMTHD)	7203	1-General 2-Slow 3-Fast 4-Lock	Select weigh method.
DISPLAY UNIT (LB-KG)	7204	lb-pounds Kg-Kilograms	Display pounds or kilograms
CAPACITY (CAP)	7206		Enter MAXIMUM weight measureable on scale.
WM1 ADJUST 1 (WMA1-1)	7207	2-100	Increase this number to smooth the weighing.
WM1 ADJUST 2	7208	0 = off	Use value less than WMA1-1 for quick weight response.

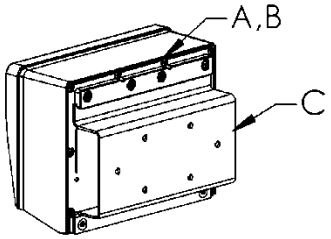
SETTING [display]	D.A.N NO.	OPTIONS [displayed]	DESCRIPTION
(WMA1-2)			
WM1 ADJUST 3 (WMA1-3)	7209		Enter the weight to activate quick weight response.
WM2 ADJUST 1 (WMA2-1)	7211		Increase this number to smooth the weighing.
WM2 ADJUST 2 (WMA2-2)	7212	0 = off	Use value less than WMA2-1 for quick weight response.
WM2 ADJUST 3 (WMA2-3)	7213		Enter the weight to activate quick weight response.
MOTION (MOTION)	7214		If ON – motion arrow flashes for unstable weight
MOTION WEIGHT (MOT WT)	7215		Enter weight used to detect Motion. 0 = Standard Motion Detection
TARE AUTO PRINT (TAREAP)	7216		If ON – tare will auto print displayed weight.
SAVE TARE (SAVTAR)	7217		If ON – Indicator will save tare weight to non-volatile memory.
SCALE PLATFORM D			
SCALE ID SETUP (SCALID)	7251		Identity of scale location.
WEIGH METHOD (WMTHD)	7253	1-General 2-Slow 3-Fast 4-Lock	Select weigh method.
DISPLAY UNIT (LB-KG)	7254	lb-pounds Kg-Kilograms	Display pounds or kilograms
CAPACITY (CAP)	7256		Enter MAXIMUM weight measureable on scale.
WM1 ADJUST 1 (WMA1-1)	7257	2-100	Increase this number to smooth the weighing.
WM1 ADJUST 2 (WMA1-2)	7258	0 = off	Use value less than WMA1-1 for quick weight response.
WM1 ADJUST 3 (WMA1-3)	7259		Enter the weight to activate quick weight response.
WM2 ADJUST 1 (WMA2-1)	7261		Increase this number to smooth the weighing.
WM2 ADJUST 2 (WMA2-2)	7262	0 = off	Use value less than WMA2-1 for quick weight response.
WM2 ADJUST 3 (WMA2-3)	7263		Enter the weight to activate quick weight response.
MOTION (MOTION)	7264		If ON – motion arrow flashes for unstable weight
MOTION WEIGHT (MOT WT)	7265		Enter weight used to detect Motion. 0 = Standard Motion Detection
TARE AUTO PRINT (TAREAP)	7266		If ON – tare will auto print displayed weight.
SAVE TARE	7267		If ON – Indicator will save tare weight to non-volatile

SETTING [display]	D.A.N NO.	OPTIONS [displayed]	DESCRIPTION
(SAVTAR)			memory.
SETUP & CALIBRATION			
DEAD WEIGHT CALIBRATION (CAL	8121		Calibration method using weights.
TEMP CALIBRATION (TCALB)	8123		If ON – Scale adjusts for temperature changes.
CALIBRATION MATCH (CALMAT	8124		Calibration method used for matching a known weight.
SYSTEM DATE FORMAT (SYSDTF)	8719		Allows date format to be changed when printing stored records.
CALIBRATION MATCH (CALMAT)	8724		Allows adjustment to the calibration number bu inputting two weight values.
LOAD DISPLAY POOL (L POOL)	8732		Load a display pool from the USB device into internal memory.
DISPLAY POOL STATUS (D POOL)	8733		Show/Display pool status in internal memory
ISOBUS VT ENABLE (ISO VT)	8745		Enable/Disable uploading mask (pool) data up to a VT
SCALE PLATFORM A			
SETUP NUMBER (SETUP)	8771		Quick entry value to select weigh method, gain, display counts and capacity.
CALIBRATION NUMBER (CAL)	8781		Weight displayed at 0.4mV/V for these load cells.
SCALE PLATFORM B			
SETUP NUMBER (SETUP)	8772		Quick entry value to select weigh method, gain, display counts and capacity.
CALIBRATION NUMBER (CAL)	8782		Weight displayed at 0.4mV/V for these load cells.
SCALE PLATFORM C			
SETUP NUMBER (SETUP)	8773		Quick entry value to select weigh method, gain, display counts and capacity.
CALIBRATION NUMBER (CAL)	8783		Weight displayed at 0.4mV/V for these load cells.
SCALE PLATFORM D			
SETUP NUMBER (SETUP)	8774		Quick entry value to select weigh method, gain, display counts and capacity.

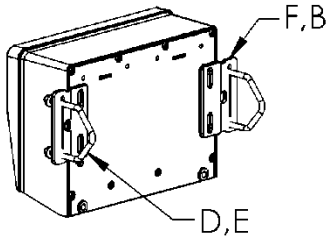
SETTING [display]	D.A.N NO.	OPTIONS [displayed]	DESCRIPTION
CALIBRATION NUMBER (CAL)	8784		Weight displayed at 0.4mV/V for these load cells.
MISCELLANEOUS UTILITES			
KEYTEST	8888		Enables front panel key test
CLOCK	8997		Enables clock – press any key to return to weighing mode

6.0 SLC2810 MOUNTING OPTIONS

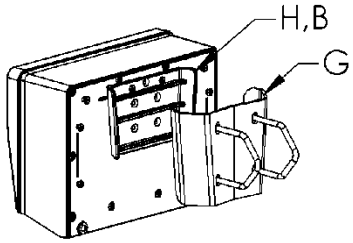
For most applications the OEM equipment manufacturer provides the necessary mounting system and hardware, and mounts the Scale Link Control for the End User.
Digi-Star provides mounting options that allow the end user to customize the location and placement of the Scale Link Control. The following section provides a list of the optional mounts.
In all cases the Digi-Star Scale Link Control must be securely mounted to the equipment. Loose, or unsupported, Indicators can be damaged.



STD UNIVERSAL MOUNT TALL

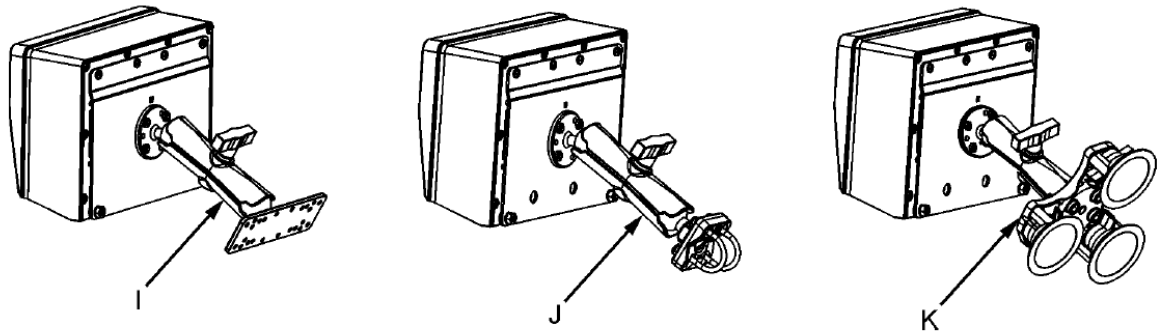


WING MOUNT



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	KIT-1.5” RAM MOUNT WITH BOLT-ON BASE WITH HARDWARE
J	407544	KIT-1.5” RAM MOUNT WITH DUAL U-BOLTS (FITS 0.5”-1.5” ROUND)
K	407434	KIT-1.5” RAM MOUNT WITH TRIPLE SUCTION CUP BASE

Additional mounting documents listed below:
D3747- wedge mounts
D3972-swivel mounts
D4194-univeral mount
D3724 -ram mounts

Additional mounts are available upon request. Please contact Digi-Star.

7.0 CABLE CONNECTIONS

For accurate and reliable operation care should be taken when routing and connecting cables to the Digi-Star Scale Link Control.

- Cables should be secured and protected from damage and abrasion.
- Long cables should not “hang” by the cable connector at the SLC2810 but should be secured to a structure close to the Indicator leaving a short “tail” to connect.

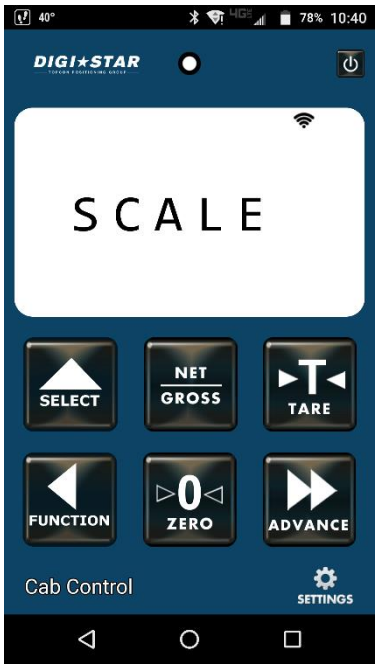
Special Considerations for Power (+) and Ground (-):

- The Digi-Star SLC2810 indicator is designed to operate at a continuous voltage ranging from 11.0 to 16.0 volts.
- Intermittent voltage drops such as when starting an engine, will be tolerated. Continuous low voltage will result in a Low Voltage warning on the display or the SLC2810 indicator will power off.
- **Voltage spike or applied voltage above 16 volts will damage the SLC2810 indicator**. **Never weld or charge the battery on the equipment that the SLC2810 indicator is mounted to without disconnecting the SLC2810 indicator power cord**. Never operate scale system if battery has been removed with engine running.
- Digi-Star recommends that the red power (+) and black ground (-) are connected as follows:
- Power (+) can be either switched or keyed On & Off, or un-switched and always On.
- Power (+) and Ground (-) should come from a dedicated auxiliary power source when provided. When auxiliary power sources are not provided, power should come from the main power distribution system.
    - Fuse or circuit protection of at least 5 amps, but no more than 10 amps, should be provided. Although the Indicator is protected internally by an internal fuse, a fuse or circuit protection is required to protect the power cable and equipment.
    - Ground (-) connection should be made to a main ground (the battery ground (-) is often connected to this location). **Do not use the chassis or frame of the equipment as a ground.**

8.0 OPTIONAL EQUIPMENT

Topcon Agriculture Americas offers a range of optional equipment that can improve productivity, increase loading accuracy, and improve record keeping. Additional details can be found on the Digi-Star website at: www.digi-star.com

8.1 Cab Control (Wireless Remote Displays & Apps)



Features & Functions

- Wireless Remote Display & Control
- Improves loading accuracy especially when loading control is located at a tender or other location that is not convenient to viewing the Scale Link Control

Products

- **408216 Cab Control 2.4GHz XBEE** Wireless Remote Display, 12VDC power required. Required ERM-2.4 to be installed on Scale Link
- **409004 ERM-2.4** For use with Cab Control 2.4. Requires 410818 Cable below. (At left below)
- **Cab Control App** Provides remote view and control. Download from iStore or PlayStore. Requires ERM-WIFI to be installed on Scale Link
- **409665 Radio-ERM-WIFI** External WiFi Radio Module for use to communicate with Cab Control App running on Android or iOS device. Requires Cable Below.
- **410818 Cable-M12 SER to ERM** (13'/ 4m) Adaptor Cable to connect ERM to SL2. Cable length allows ERM-WiFi to be placed in a position high on the machine to provide clear Line-of Site communication.

9.0 NOTES