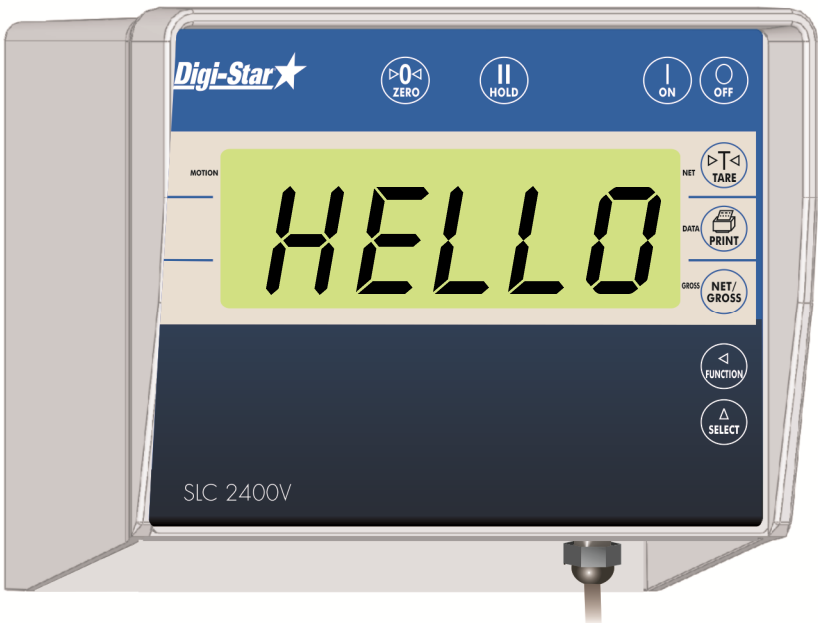




# SLC 2400

## Operators Manual



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## **INTRODUCTION**

This SLC 2400 connects to any of the Scale Link models configured with a SLC interface connector.

- SL100 Series
- SL200 Series
- SL300 Series

The SLC 2400 has a large 1.7" six digit display and nine buttons to set-up and control the Scale Link.

## **TECHNICAL SPECIFICATIONS**

### **SIZE**

10.25" long x 8.0" high x 4" wide  
(260mm x 190mm x 105mm)

### **OPERATING TEMP**

-29°C to 60°C      -20°F to 140°F

### **WEIGHT**

4.5 lbs (2.04 Kg)

### **POWER REQUIREMENTS**

Power provided by Scale Link  
10.5 to 16.0 VDC  
150mA nominal

### **DISPLAY**

6 Digit LCD 1.7" high

### **ENVIRONMENTAL**

#### **ENCLOSURE**

IP65, IEC 529

### **HELP MESSAGES**

Long messages are scrolled

## SAFETY DURING USE



### Caution

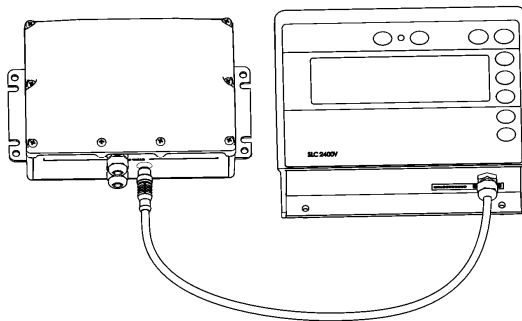
#### Cleaning

Do not use running water (high pressure cleaners, hoses) to clean the indicator or the Scale Link.

#### Charging Battery and Welding

Disconnect all cables from the weighing indicator and the Scale Link before charging the battery or welding on the machine. If cables are left connected, the weighing indicator and connected load cells could be damaged.

## SYSTEM CONFIGURATION












Scale Link

SLC 2400

# SCALE LINK CONTROL OVERVIEW



**Note:** See page 21 for installation instructions.

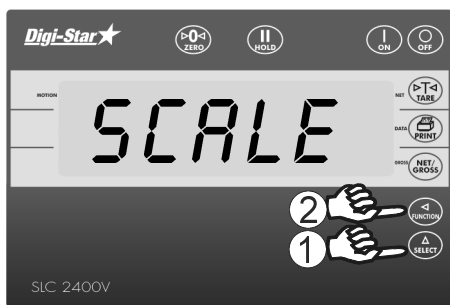
- ①  – press and hold for 3 seconds to zero balance indicator.
- ②  – holds displayed weight; press to release.
- ③  – functions as an enter key, cannot turn power on.
- ④  – non functional, cannot turn power off.
- ⑤  – temporary zero (Net Mode).
- ⑥  – records to memory or prints displayed weight.
- ⑦ Display Window – Displays current actions.
- ⑧  – toggles between Net and Gross weights.
- ⑨  – performs task displayed by select.
- ⑩  – displays additional tasks.



## OPERATION

Power to the Scale Link Control (SLC 2400 is provided from the Scale Link 100, 200 or 300. The on and off switch on the front panel of the SLC 2400 cannot turn power on or off.

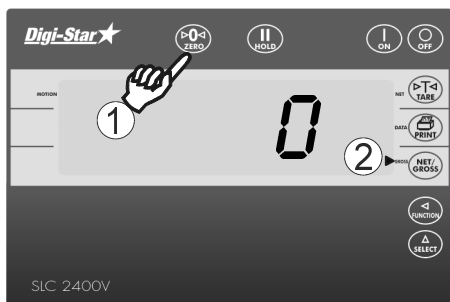
### Systems with Multiple Scales (Optional)


Some Scale Link systems have two or three separate scales combined into one system. Use the following procedure to display the scale of your choice.



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

### Zero Balance Indicator



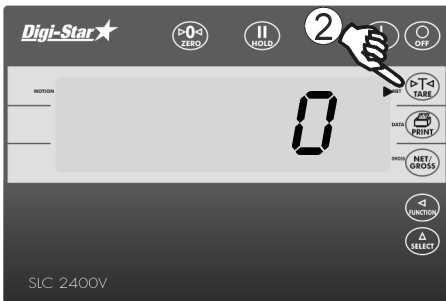
1. Press and hold  for 3 seconds to zero balance indicator.
2. Flashing arrow points to gross next to the display window, scale ready to weigh.

### Tare and Net/Gross

Tare is a temporary zero (Net Weight) to display total weight (Gross Weight) Press **NET/GROSS**.



1. Weight displayed, press **TARE** sets zero weight.



2. Pressing **TARE** displays zero weight and flashing arrow on side of display points to NET.



3. Add more weight.





4. To know total of original weight of 4000 pounds plus added 300 pounds, press **NET/GROSS** to show 4300 pounds, flashing arrow points GROSS.



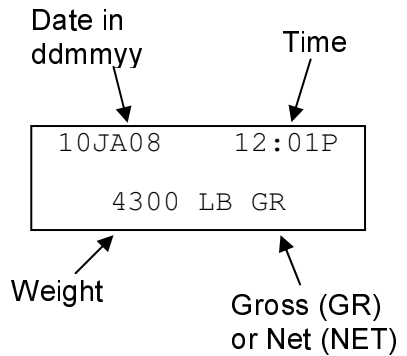
5. Press **NET/GROSS** 300 pounds displayed flashing arrow points NET.

**Print Key**

*Note: Optional serial port must be installed for printing.*



1. Press **PRINT**. Indicator sends data to printer or PC.

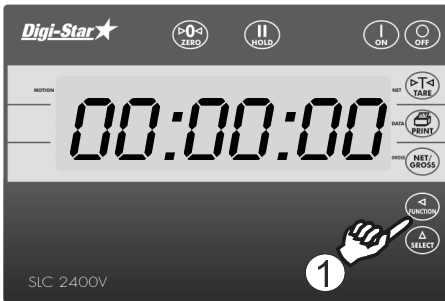



## Timer Option

Stopwatch for mixing time.







1. Repeatedly press  until *TIMER* is displayed.



1. Press  to displays hours, minutes and seconds (hh:mm:ss).



1. Repeatedly press  moves flashing digit left.
2. Repeatedly press  changes number.
3. Press  to start timer.
4. When timer reaches zero press  to clear timer.

### Using the M+, RM and CM Options

Use these options to weigh truck or wagon one axle at a time.




1. Add weight on scale. Example: 500 pounds.



2. Repeatedly press  until *M+* is displayed.




3. Press  *500* pounds and *RM* briefly displayed. 500 pounds added to scale memory and scale in gross weight mode.



4. Put another weight on scale.  
Example: 1000 pounds.





5. Repeatedly press  until *M+* is displayed.



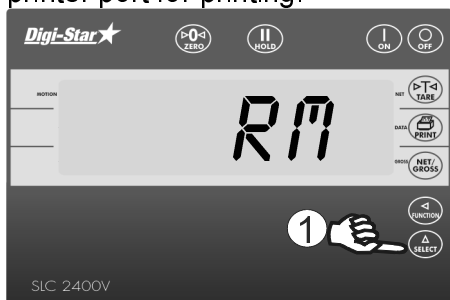
6. Press  scale adds 1000 pounds to 500 pounds in memory and *RM* flashes.




7. Repeatedly press  until *RM* is displayed.  
8. Press .  
9. Total of both weights, 1500 pounds, display, scale switches to gross weight mode.



## Printing Weight from Memory

Indicator must have optional printer port for printing.

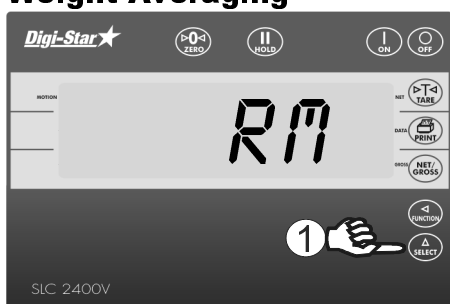



1. Repeatedly press  until *RM* is displayed.



2. Press  shows weight in memory. Example: 1500 pounds.
3. Press  while weight displayed.

## Weight Averaging



1. Repeatedly press  until *RM* is displayed.



2. Press **FUNCTION** twice within three seconds performs weight average.
3. Display shows *COUNT 2* if number of individual weights to average is two. Example weight of 1000 pounds and 500 pounds averaged.



4. Displays *AVERAG*.



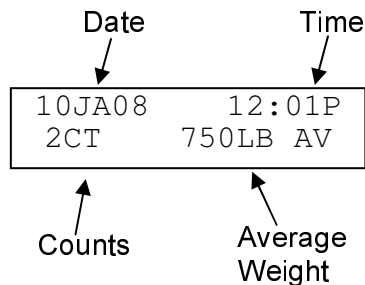
5. Display shows average of two weights in memory. After displaying average weight, scale returns to gross weight mode.

### Printing Average Weight



1. Press **PRINT** while average weight is displayed.

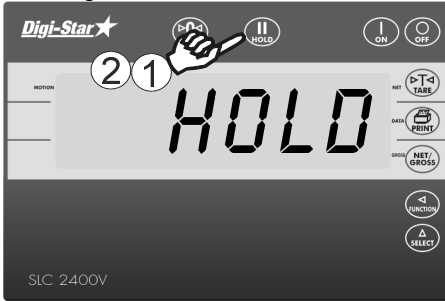
Sample output format shown below:



# OTHER FUNCTIONS

## Hold

Hold mode prevents displayed weight from changing while moving.



1. Press .
2. Press indicator normal.

If weight added in hold mode, press to cancel hold.

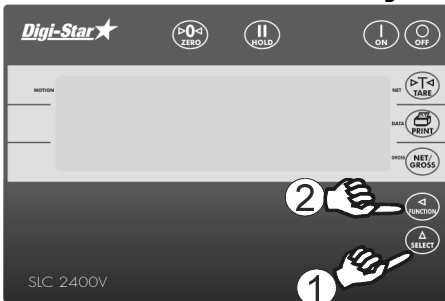
**Note:** This feature is disabled on all legal for trade systems.

## Using Dimmer Option



1. Repeatedly press until DIMMER is displayed.
2. Press dims backlight.

## Function and Select keys



1. Repeatedly press to view following options:

**Timer:** Stopwatch for mixing time

**M+:** Adding weigh to weight memory

**RM:** Recall weight memory

**CM:** Clear weight memory

**Dimmer:** Dimming backlight

**Menu:** View menus 1,2,3,4 and calibrate. See page 16.







**Setup:** Change setup and calibration numbers. See page 20.

**Help:** Explains operation of select and function key

2. Desired option displayed, press to activate.

# MENUS AND CALIBRATION

Options changed by user. To display menus 1,2,3,4 and calibrate:

1. Repeatedly press  until *MENU* is displayed.
2. Press .
3. Repeatedly press  selects Menu 1,2,3,4 or calibrate.
4. Press  displays setting name and allows value changes.
5. Press  selects options for each setting/display.
6. Press  saves setting and next option for menu displays.

SETTING [display]	D.A.N NO.	OPTIONS [displayed] BOLD=DEFAULT	DESCRIPTION
<b>MENU 1. BASIC FEATURES IN MOST INDICATORS</b>			
LANGUAGE (LANGAG)	101	<b>English</b> (ENGLISH) Dutch (NEDERL) French (FRANCS) German (DEUTSH) Italian (ITAL) Portuguese (PORT) Spanish (ESPAÑ) Danish (DANSK) Hungarian (MAGYAR) Spanish (VESTR)	Select language to be displayed.
DISPLAY RATE (D RATE)	102	1,2,3,4	Update display times per second.
ZERO TRACK (ZTRACK)	104	ON/OFF	If ON -zero track adjust balance for build up of snow & mud.
WEIGH METHOD (W MTHD)	105	1=General, 2=Fast, 3=Slow, 4=Lock-On	Select weigh method
SCALE ID SETUP (SCALID)	108	NEW EZ	Identity of scale location (truck id or Mixer number).
1 PRESS ZERO (I ZERO)	115	ON/OFF	If ON -press and hold Zero key to Zero/Balance scale.
<b>MENU 2. CLOCK, PRINTER, COMMUNICATIONS FEATURES</b>			
TIME FORMAT	201	24 HR	



SETTING [display]	D.A.N NO.	OPTIONS [displayed] BOLD=DEFAULT	DESCRIPTION
<i>{TIME F}</i>		AM/PM	Select time format -AM/PM or 24 hour
1 TIME <i>{TIME}</i>	202	XX:XX:XX	Select key changes time, function key chooses hh:mm:ss.
DATE FORMAT <i>{DATE F}</i>	203	1-mm-dd 2-mm/dd/yy 3-mm/dd/yyyy 4-dd-mm 5-dd/mm/yy 6-dd/mm/yyyy 7-ddmoyy 8-ddmoyyyy.	Select date format
DATE <i>{DATE}</i>	204	Enter XXXXXX	Select key changes date - function key chooses mm/dd/yy .
TARE AUTO PRINT <i>{TAREAP}</i>	211	ON/OFF	If ON -tare auto-prints displayed weight.
ONE LINE PRINT <i>{1L PRT}</i>	212	ON/OFF	If ON -scale data prints on one line.
AUTO PRINT <i>{APRINT}</i>	214	ON/OFF	If ON -pressing keys auto-prints weight values.
PRINT FORMAT <i>{PRTFMT}</i>	216	AUTO WTONLY DOWNLD DT+TM ID+TM IDWTTM ANIMAL 3200-A 3200-B 32-TMR DATCH1 FDINFO WTRCTM EIDINF EID EIDVID	Select alternate & comma (CSV) formats.

SETTING [display]	D.A.N NO.	OPTIONS [display] BOLD=DEFAULT	DESCRIPTION
REMOTE (REMOTE)	218	ON/OFF	If ON scale communicates with cab control display
ZERO OUTPUT (ZEROUT)	219		Perform Zero/Balance for SCOREM #11 weight output and analog output (4-20mA)
SCALE NUMBER (SCL NO)	231		Select scale number for cab control communication
REMOTE DISPLAY (RMDISP)	234	EZ3MUX EZ2	Select type of remote display
ANALOG LOW WEIGHT (LOW WT)	241		Enter analog weight value to equal 4mA or 0 volts
ANALOG HIGH WEIGHT (HIGHWT)	242		Enter analog weight value to equal 20mA or 5 volts
ANALOG SELECT (ANROUT)	243		Select 0-5V,4-20ma or 0-20ma output
MENU 3. SCALE CALIBRATION SETTINGS			
DISPLAY UNIT (LB-KG)	301	.01,.02,.05,.1,.2,.5,1,2,5, 10,20, 50,100	Select display count size of weigh values.
CAPACITY (CAP)	303	LB/KG	Display pounds -lb or kilograms -kg
WM1 ADJUST 1 (WM1-1)	304	40000	Enter MAXIMUM weight measurable on scale.
MENU 4. PRESET, BATCHING & ROTATION COUNTER FEATURES			
Does not apply to 2400 indicator			
CALIBRATION			
DEAD WEIGHT CAL (CAL)	802		Calibration method using weights
SETUP NUMBER (SETUP)	871		Quick entry method selects weigh method 1-4lbs, 5-8 kg, gain 1-9, display counts 1-9 and capacity *1000
CALIBRATION NUMBER (CAL)	872		Weight displayed at 0.4mV/V for these load cells

## RE-CALIBRATING YOUR SCALE

To re-calibrate your scale and make it even more accurate, document several loads of varying sizes and measure the actual weight of all loads on a certified scale.

In this example, we are unloading six loads onto four semi-trucks.

Example:

Load A	51560
Load B	33240
Load C	17620
Load D	50420
Load E	38200
Load F	12360
<b>Total Indicator Weight</b>	<b>203400</b>

Truckload #1	51920
Truckload #2	51320
Truckload #3	50720
Truckload #4	51070
<b>Total Certified Weight</b>	<b>205030</b>

### Reading Too High


If the Indicator is reading higher than the certified scale, then the calibration number is high and should be decreased proportionally. See page 20.

### Reading Too Low

If the Indicator is reading lower than the certified scale, then the calibration number is low and should be increased proportionally. See page 20.









## Get your Calibration Number



1. Enter **872** and press . The calibration (**CAL**) number will display. Example **CAL = 24280**.

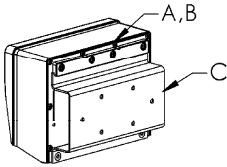
## Change Set up and Calibration Numbers



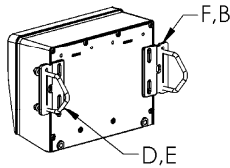
1. Repeatedly press  until *SETUP* is displayed.
2. Press .
3. Six digit setup number displayed. Change number, press  moves flashing position left. Press  changes number.
4. Press  stores setup number. Indicator displays *CAL*, change number by pressing  and .
5. Press  to exit.

# INSTALLATION

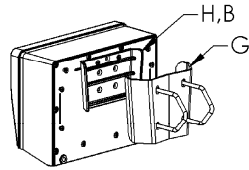
## Indicator Mounting



**RAIL MOUNT**

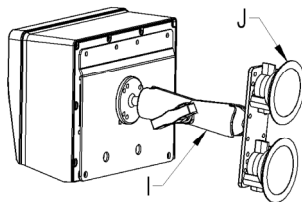


**WING MOUNT**



**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

## OPTIONAL EQUIPMENT

### Transmitter/Receiver



### Features

- Wireless remote with full key control of indicator on mixer
- Mount remote in easy view of loading
- Improves loading accuracy

### Functions

- Communicates with multiple mixers

Transmitter (shown) with factory installed receiver in indicator. Use to zero indicator from a remote location. Operating range about 90 feet.