

CLS-920i[®]

Forklift Scale Display

Installation Manual



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Revision History

This section tracks and describes manual revisions for awareness of major updates.

Revision	Date	Description
C	July 17, 2026	Established revision history

Table i. Revision Letter History



Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at www.ricelake.com/training or obtained by calling 715-234-9171 and asking for the training department.

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Rice Lake continually offers web-based video training on a growing selection of product-related topics at no cost. Visit www.ricelake.com/webinars

1.0 Introduction

This manual is intended for use by individuals responsible for installing the CLS-920i Cargo Lift Scale with the 920i HMI digital weight indicator. This manual covers information on the installation of the scale carriage, signal cable installation (if applicable), and the installation, configuration, and calibration of the 920i HMI digital weight indicator.



NOTE: While the functionality remains the same for the standard 920i HMI digital weight indicator, there are certain menu choices found in the User Configuration section of this manual that are specific to this application.

The CLS-920i Operator Card, PN 96313 included with this manual, provides basic operating instructions for users of the CLS-920i and the 920i HMI digital weight indicator. Please leave the operator card with the indicator when installation and configuration is complete.



Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Warranty information is available at www.ricelake.com/warranties

Safety Definitions:



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.



IMPORTANT: Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

General Safety



Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.



WARNING

Failure to heed could result in serious injury or death.

Some procedures described in this manual require work inside the indicator enclosure. These procedures are to be performed by qualified service personnel only.

Take all necessary safety precautions when installing the scale carriage including wearing safety shoes, protective eye wear, and using the proper tools.

DO NOT allow minors (children) or inexperienced persons to operate this unit.

DO NOT operate without all shields and guards in place.

DO NOT jump up and down on the scale.

DO NOT use for purposes other than weight taking.

DO NOT place fingers into slots or possible pinch points.

DO NOT use any load bearing component that is worn beyond 5% of the original dimension.

DO NOT use this product if any of the components are cracked.

DO NOT exceed the rated load limit of the unit.

DO NOT make alterations or modifications to the unit.

DO NOT remove or obscure warning labels.

DO NOT use near water.

Keep hands, feet and loose clothing away from moving parts.

1.1 Disposal



Product Disposal

The product must be brought to appropriate separate waste collection centers at the end of its life cycle.

Proper separate collection to recycle the product helps prevent possible negative effects on the environment and to health, and promotes the recycling of the materials. Users who dispose of the product illegally shall face administrative sanctions as provided by law.

Battery Disposal

Dispose of batteries at appropriate waste collection centers at the end of their life cycle in accordance with local laws and regulations. Batteries and rechargeable batteries may contain harmful substances that should not be disposed of in household waste. Batteries may contain harmful substances including but not limited to: cadmium (Cd), lithium (Li), mercury (Hg) or lead (Pb). Users who dispose of batteries illegally shall face administrative sanctions as provided by law.



WARNING: Risk of fire and explosion. Do not burn, crush, disassemble or short-circuit batteries. Do not replace battery with incorrect type.

1.2 FCC Compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

1.3 Overview

The CLS-920i Cargo Lift Scale is a rugged, dependable cargo lift scale that can withstand many years of repeated use. When mounted on a forklift, the CLS-920i saves time and money. The load is immediately weighed when picked up by a forklift instead of carrying the load to a floor scale.

The CLS-920i is used with Rice Lake's 920i HMI digital weight indicator and the setup and calibration of the indicator is discussed in detail in this manual.

1.4 Front Panel

The CLS-920i front panel, shown in [Figure 1-1](#), consists of a 27-button keypad with a large backlit LCD display. The keys are grouped as five configurable softkeys, five primary scale function keys, four navigation keys, and numeric entry keys.

Weight information is displayed with a graphical scale in six font sizes up to 1.2 inches. Status areas on the display are used for operator prompts and entering data. The remainder of the display can be graphically configured for representation of a specific application.

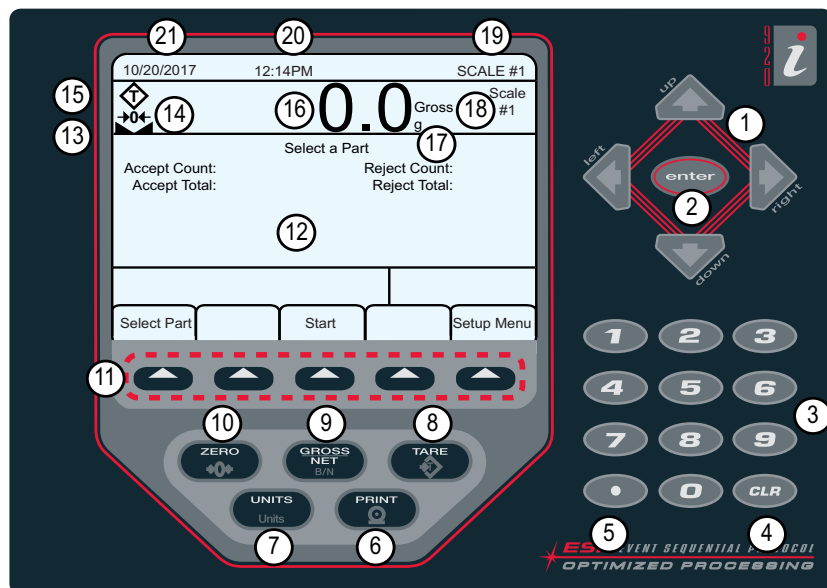


Figure 1-1. CLS-920i Front Panel

Item No.	Description
1	Navigation Keys – used to enter values; scroll through menus
2	Enter – save entries from the numeric keypad
3	Numeric Entry – used for entering numbers or keyed tares
4	Clear – backspace when entering numbers/letters
5	Decimal – Inserts a decimal point as needed
6	Print – sends an on-demand print format out a communications port, provided the conditions for standstill are met
7	Units – switches the weight display to an alternate unit
8	Tare – performs a predetermined tare function as set in the TAREFN parameter; set in the Scale menu
9	Gross/Net – toggles the weight display between gross and net mode. If a tare value has been entered or acquired, the net value is the gross weight minus the tare
10	Zero – sets the current gross weight to zero
11	Softkeys – keys that can be configured to provide additional operator functions
12	Display – status areas on the display are used for operator prompts and entering data; the remainder of the display can be graphically configured for representation of a specific application
13	Standstill Symbol – scale is at standstill or within the specified motion band
14	Center of Zero Symbol – indicates that the current gross weight reading is within +/- 0.25 display divisions of the acquired zero
15	Tare Symbol – indicates that a tare has been acquired and stored in the system • T = pushbutton tare • PT = keyed tare
16	Weight Display – current weight displays
17	Units Indicator – current unit of display
18	Gross/Net Indicator – indicates whether the weight value is in Net or Gross mode
19	Scale in use – indicates the scale that is currently being read by indicator
20	Time – displays current time
21	Date – displays current date

1.5 Dimensions

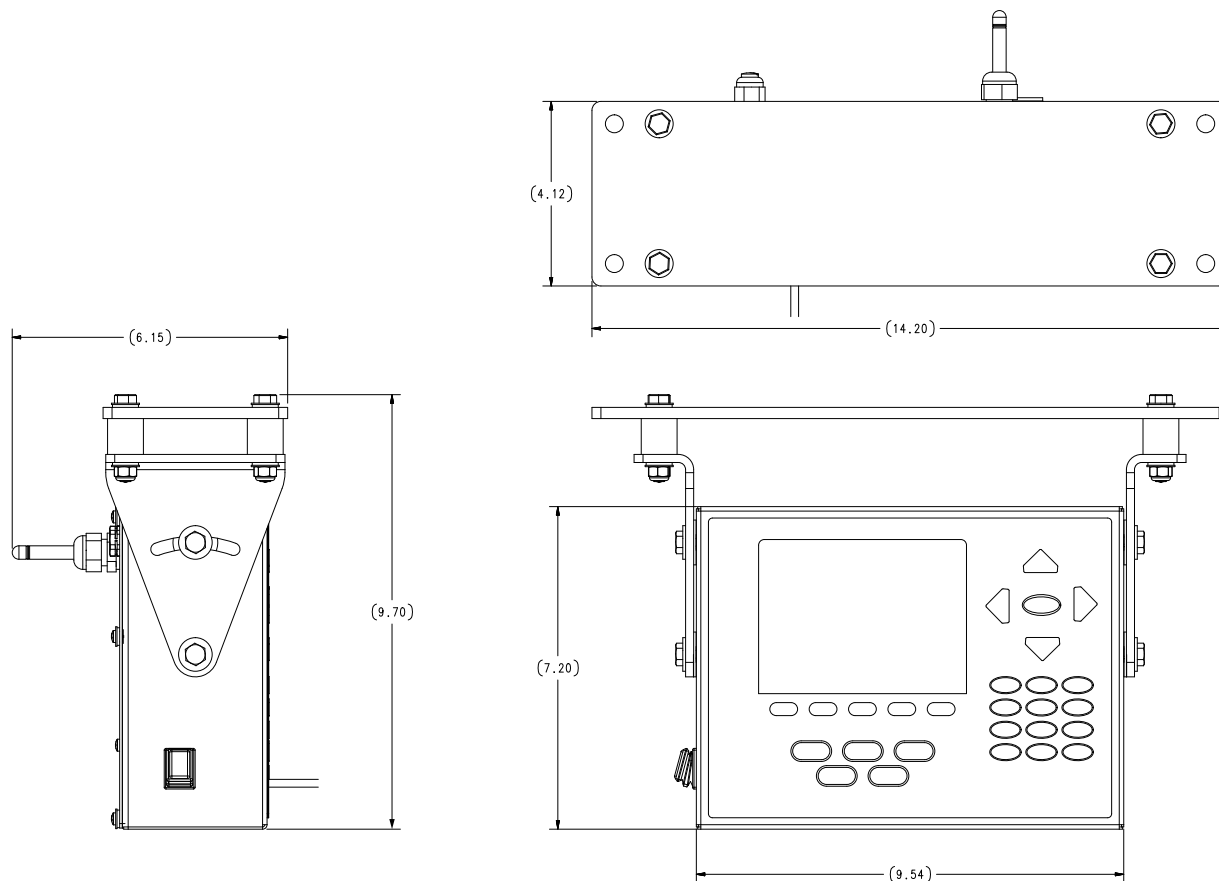


Figure 1-2. Panel Mount Model Dimensions

2.0 Installation

This section describes procedures for installing the CLS-920i scale base.



WARNING: Take all necessary safety precautions when installing the scale carriage, including wearing safety shoes, protective eyewear and using the proper tools.

2.1 Mounting the 920i Indicator

Location of the indicator is a matter of operator preference and should be installed in a location that allows for free vision.

The universal mounting bracket, which is included, enables the indicator to be mounted to the safety cage using the supplied hardware.

The indicator tilt position is adjustable by using a wrench to adjust for the best viewing angle of the operator.

Vibration isolators are included with the supplied mounting bracket hardware to cushion the indicator from vibration.

Vibration Isolators

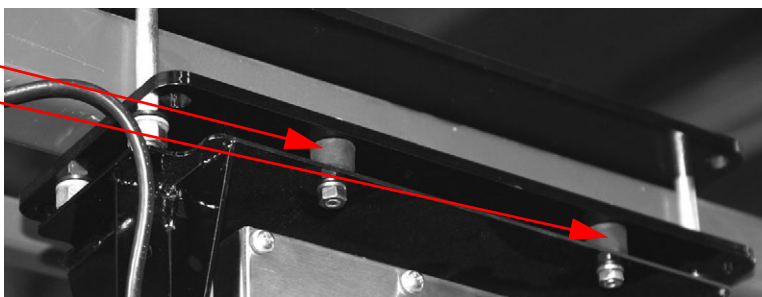


Figure 2-1. Vibration Isolator Location

2.2 Cable Connections

The 920i indicator provides four cord grips and two MIL-C connectors for cabling into the indicator. The free cord grips come with a plug installed to prevent moisture from entering the enclosure.

Figure 2-2 shows the assignments for the cord grips.

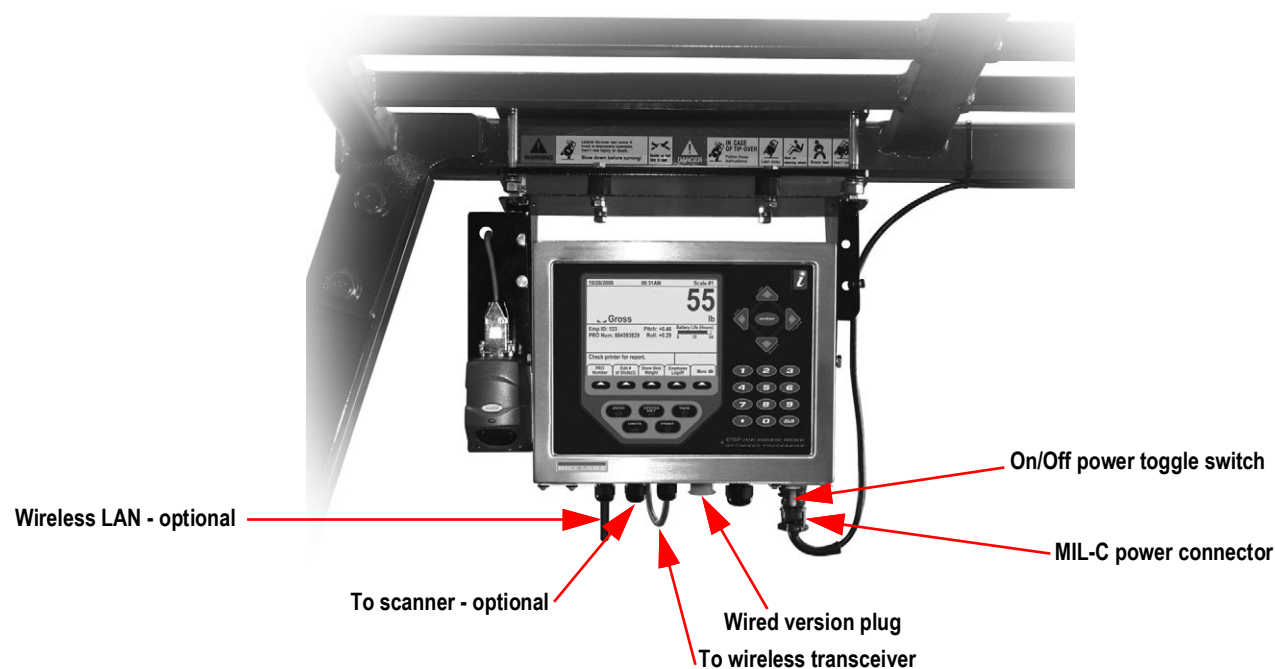
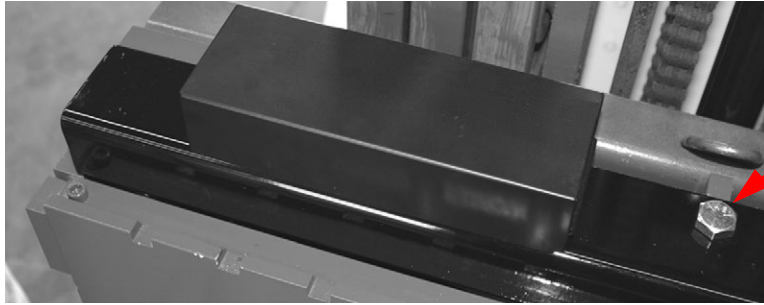


Figure 2-2. 920i Cord Grip Assignments

2.3 Installing Wireless Option on Existing Unit



1. Loosen the top bolt to remove the existing cover.
2. Place the Wireless Option cover on the scale and secure with the bolt.

3.0 Operation

The CLS-920i has two modes of operation:

Weigh mode

The indicator displays gross, net, or tare weights as required, using the secondary display to indicate scale status and the type of weight value displayed. Weigh Mode is the only mode in which the 920i can operate (without breaking the seal) once configuration is complete and a legal seal has been affixed to the indicator.

Setup mode

Most of the procedures described in this manual require the indicator to be in setup mode, including configuration and calibration.

To enter setup mode, remove the large fillister head screw from the enclosure. Insert a non-conductive tool into access hole to press the setup switch. The configuration menu displays.

NOTE: See the 920i Technical Manual (PN 67887) for CLS-920i calibration and configuration instructions.

3.1 Basic Operations

Basic CLS-920i operations are summarized below:

Gross/Net Mode

If a tare value has been entered or acquired, the net value is equal to gross minus the tare value.

Press  to toggle between **Gross** and **Net** modes. If there is no tare, the display remains in gross mode.

Annunciators at the end of the weight indicates the current mode.

Units

Press  to toggle between primary, secondary and tertiary units.

Zero Scale

1. In gross mode, remove all weight from the scale and wait for   to display.
2. Press .  **0**  displays, indicating the scale is zeroed.

Acquire Tare

1. Place a container on the scale and wait for   to display.
2. Press  to acquire a tare weight of the container. **0** displays with **Net**.

Remove Stored Tare Value

1. Remove all weight from the scale and wait for   to display.
2. Press  (in OIML mode, press ). **0** displays with **Gross**.

Print Ticket

With   displayed, press  to send data to the serial port.

To print tickets using auxiliary formats, press the number key for the format and press **Print**.



NOTE: See the 920i Technical Manual (PN 67887) for more information about softkeys.

3.2 Accepting Weight Data to the Indicator

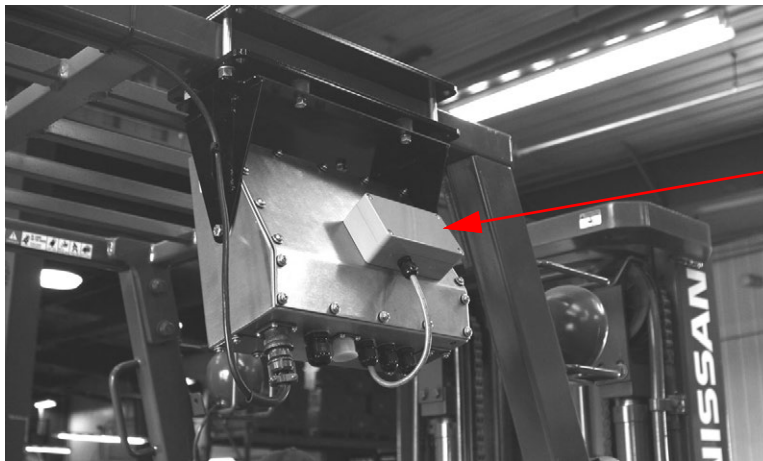
The CLS-920i can accept data in two different ways from the two-channel iQube2. The CLS-920i has different components depending on which version is purchased. They are:

- **Wired** - Coil Cable



Figure 3-1. Coil Wired Signal Cable Between the 920i and the iQube2

- **Wireless** - Collects data from the two-channel iQube2 is attached to the back of the 920i HMI indicator and uses a lithium-ion battery housed on the scale for power.



Wireless communication from the indicator to the iQube2 located on the scales angle bracket.



Lithium-Ion battery housed in a battery box.

Figure 3-2. Wireless Version of Communication

3.3 Daily Operation

Once configuration of the user's parameters are entered, the CLS-920i is ready for daily operation.

1. At the start of a shift, enter the employee ID number.

01/31/2018		08:13AM		SCALE 1	
		2500			
Gross				lb	
Emp ID: 0		Pitch: 0.00			
PRO Num:		Roll: 0.00			
Please enter or scan your employee ID #.					
Home		Cancel			End

01/31/2018		08:13AM		SCALE 1	
		2500			
Gross				lb	
Emp ID: 0		Pitch: 0.00			
PRO Num:		Roll: 0.00			
Please enter a PRO Number.					
PRO #					
=>					
Home		Cancel			End

Figure 3-3. Enter Employee ID and PRO number

If a new employee, enter a numerical employee ID number and press **enter**. The menu displays **124 Stored in Database** (124 = employee ID entered).

2. Select the PRO Number softkey to enter a nine-digit PRO number in the indicator using the bar code scanner or enter it in on the numeric keypad.



NOTE: The PRO number digit length can be changed by going into the Supervisors softkey menu => Application Parameters => Minimum PRO length and Maximum PRO length.

If PRO number is pre-existing see [Section 3.3.1](#)

3. Press **enter** to save the PRO number, indicator displays:.

01/31/2018		08:13AM		SCALE 1	
		0			
Gross				lb	
Emp ID: 0		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
Please enter the estimated weight recorded on papers with this PRO.					
Estimated Wt					
=>					
Home		Cancel			End

01/31/2018		08:13AM		SCALE 1	
		0			
Gross				lb	
Emp ID: 0		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
Please select the units of the estimated weight.					
Lb		Kg		Short Ton	Metric Ton
					More ->

Figure 3-4. Enter Estimated Weight and Units of Measure

4. Enter the estimated weight and press the **enter** key.
5. Enter the estimated unit weight and press **enter**, indicator displays the PRO information was saved. Then displays the main PRO menu.

01/31/2018		08:13AM		SCALE 1	
			0		
Gross			lb		
Emp ID: 123		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
Information saved for PRO number 123456789					
Lb	Kg	Short Ton	Metric Ton	More ->	

01/31/2018		08:13AM		SCALE 1	
			0		
Gross			lb		
Emp ID: 123		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
PRO Number	Edit # of Skids (f)	Store Skid Weight	Employee Logoff	More ->	

Figure 3-5. Information Saved and PRO Menu

3.3.1 Pre-existing PRO Number

1. If the PRO Number is a pre-existing number then the steps listed differ slightly.

Key in the existing PRO Number, indicator displays:

01/31/2018		08:13AM		SCALE 1	
			0		
Gross			lb		
Emp ID: 123		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
Would you like to open or close this PRO?					
Open				Close	

Figure 3-6. Open or Close PRO Number

2. Select either the **Open** or **Close** softkey.

If the **Close** softkey, the screen closes and indicator displays:

01/31/2018		08:13AM		SCALE 1	
			0		
Gross			lb		
Emp ID: 0		Pitch: 0.00			
PRO Num:		Roll: 0.00			
PRO Number			Employee Logoff	More ->	

Figure 3-7. Exit PRO Number Screen

If **Open** is selected indicator displays:

01/31/2018		08:13AM		SCALE 1	
				0	
Gross				lb	
Emp ID: 123		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
PRO Number	Edit # of Skids (f)	Store Skid Weight	Employee Logoff	More ->	

Figure 3-8. Open PRO Number Screen

Edit # of Skids (f)

1. Press the **Edit # of Skids (f)** softkey, indicator displays:

01/31/2018		08:13AM		SCALE 1	
				0	
Gross				lb	
Emp ID: 123		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
Please enter the number of skids for this PRO.					
# Skids =>					
Home		Cancel		End	

Figure 3-9. Enter Skid Amount

2. Enter the number of skids and press **enter**. The indicator will briefly display **# Skids Updated** before returning back to the main menu.

Store Skid Weight

1. Press the **Store Skid Weight** softkey, indicator displays:

01/31/2018		08:13AM		SCALE 1	
			2300		
Gross			lb		
Emp ID: 123		Pitch: 0.00			
PRO Num: 123456789		Roll: 0.00			
Skid weight stored.					
PRO Number	Edit # of Skids (f)	Store Skid Weight	Employee Logoff	More ->	

Figure 3-10. Enter Skid Weight

The indicator will display **Skid weight stored**, skid weight is stored on and the weight. If there is no weight on the forklift, the display will read **No weight on forklift**.

4.0 Troubleshooting

General troubleshooting tips for various hardware and software error conditions are listed in [Table 4-1](#).

4.1 Error Messages

The CLS-920i indicator displays an error messages when an error occurs.

Error Message	Description	Solution
E A/D	A/D physical error	Call Rice Lake Weighing Systems Service.
EEPERR	EEPROM physical error	
VIREE	Virgin EEPROM	Use TEST menu to perform DEFLT (restore defaults) procedure, then calibrate the scale.
EPCKSM	Parameter checksum error	
ADCHKSUM	A/D calibration checksum error	A/D converter requires calibration. Call Rice Lake Weighing Systems Service.
PFCKSUM	Printer format checksum error	Call Rice Lake Weighing Systems Service.
LCKKSM	Load cell calibration checksum error	Calibrate scale.
EIDATA	Internal RAM checksum error	Call Rice Lake Weighing Systems Service.
E REF	A/D reference error	A/D converter requires calibration. Call Rice Lake Weighing Systems Service.
Error	Internal program error	Check configuration. Run XE command to determine error type. Call Rice Lake Weighing Systems Service if unable to clear error by cycling power or if error recurs.
OVER	Gross value setting exceeds overload limit	Check configuration or signal input level. Overload can be caused by input signal >45 mV or common mode voltage >950 mV.
UNDER	A/D under range	A/D reading is less than -4 mV. Check scale for mechanical interference or damage.
NO COM	No communication with j-box	Check coiled cable connections for signal and damage.
ERRSS	Serial scale error	• Correct wiring - check wiring connections, load cell wires and excitation on j-box. • Change j-box.
ANGL	Forks not level within 7 in	Position forks to within level condition.
-WAIT-	J-Box is powering up	This message is a normal action of the indicator.
ErrCell	J-Box is reporting a generic error	Use test mode to diagnose the problem.
LowBat	J-Box low voltage error	• Disconnect the coiled homerun cable at the indicator, reconnect to remove the error message. • Correct wiring - check +excitation wiring connections on the j-box PCB. • Check load cell wires for damage. • Change j-box.

Table 4-1. 920i Error Messages

4.2 Troubleshooting

Symptom	Possible Cause	Action
Scale reading high against test weight.	Material, like wood debris, between the scale and the forklift carriage.	Remove debris.
	Material, like wood debris, between the front and back scale plates.	Remove debris.
	Centering pin touching the forklift carriage, causing it to teeter back and forth.	Adjust scale carriage, centering pin should not touch on sides and bottom.
	Bottom cleats not adjusted properly or loose.	Adjust to proper gap using jam nuts, 0.02"
	If all these steps do not resolve your issue, check the following,	
	J-box error	Open j-box and look for obvious damage
	Load cell errors	Test mV/v levels, at 1.5 mV per 1,000 lb, test at 350 ohms
Scale reading low against test weight.	Zero key has been pressed with a negative weight reading, while forks are on the floor.	Lift forks off ground, press the Zero key
	Material, like wood debris, between the scale and the forklift carriage.	Remove debris
	Material, like wood debris, between the front and back scale plates.	Remove debris
	Centering pin touching the forklift carriage, causing it to teeter back and forth.	Adjust scale carriage, centering pin should not touch on sides and bottom.
	Bottom cleats not adjusted properly or loose.	Adjust to proper gap using jam nuts, 0.02"
	If all these steps do not resolve your issue, check the following	
	J-box error	Open j-box and look for obvious damage.
	Load cell errors	Test mV/v levels, at 1.5 mV per 1,000 lb, test at 350 ohms
Weight inaccurate	Tare key has been activated	At a stable zero weight, press the TARE key to return scale to the weigh mode.
Scale displaying negative weight	Forks are resting (even slightly) on the floor.	Lift forks up off floor.
Scale not returning to zero (0)	Forks are touching the ground.	Lift forks off ground, press the Zero key.
	Material, like wood debris, between the scale and the forklift carriage.	Remove debris
	Material, like wood debris, between the front and back scale plates.	Remove debris
	Centering pin touching the forklift carriage, causing it to teeter back and forth.	Adjust scale carriage, centering pin should not touch on sides and bottom.
	Bottom cleats not adjusted properly or loose.	Adjust to proper gap using jam nuts, 0.02"
	If all these steps do not resolve your issue, check the following,	
	J-box error	Open j-box and look for obvious damage.
	Load cell errors	Test mV/v levels, at 1.5 mV per 1,000 lb, test at 350 ohms.
Will not display small weight values	Digital filter sensitivity is too high.	Using Revolution: scales menu/scales #1/filtering change the digital filtering sensitivity to light and change digital filter threshold to 10.
Unstable weight	Power connections faulty, low battery	Check battery power cable. Check for low battery voltage.

Table 4-2. Troubleshooting

Symptom	Possible Cause	Action
No weight being displayed on the hand-held device.	Power switch off	Turn on power switch
	Coiled cable has loose connections or wear.	Fasten coiled cable connections. Replace coiled cable, if damaged.
	If all these steps do not resolve your issue, check the following,	
	J-box sealing switch is in calibration mode.	Move switch to weighing mode.
	J-box load cell connections loose.	Securely fasten connections.
	J-box error	Open j-box and look for obvious damage.
	Load cell errors	Test mV/v levels, at 1.5 mV per 1,000 lb, test ohms.
Intermittent weight readings, weight reading high and low.	Material, like wood debris, between the scale and the forklift carriage.	Remove debris
	Material, like wood debris, between the front and back scale plates.	Remove debris
	Centering pin touching the forklift carriage, causing it to teeter back and forth.	Adjust scale carriage, centering pin should not touch on sides and bottom.
	Bottom cleats not adjusted properly.	Adjust to proper gap using jam nuts, 0.02"
	Check alignment of load cells.	Adjust load cells.
	Low forklift battery	Charge forklift battery, disconnect power prior to charging.
	Coiled cable has loose connections & wear.	Fasten coiled cable connections. Replace coiled cable, if damaged.
	If all these steps do not resolve your issue, check the following,	
	Load cell connections on j-box	Securely fasten connections.
	J-box error	Open j-box and look for obvious damage.
	Load cell errors	Test mV/v levels, at 1.5 mV per 1,000 lb, test ohms using Revolution/Live Weight Data/Cell 1 & 2 MV
Weight on forks, no displayed weight.	Material, like wood debris, between the scale and the forklift carriage.	Remove debris
	Material, like wood debris, between the front and back scale plates.	Remove debris
	Centering pin touching the forklift carriage, causing it to teeter back and forth.	Adjust scale carriage, centering pin should not touch on sides and bottom.
	Bottom cleats not adjusted properly.	Adjust to proper gap using jam nuts, 0.02"
	Low forklift battery.	Charge forklift battery.
	Coiled cable error	Check coiled cable connections and wear and tear.
	If all these steps do not resolve your issue, check the following,	
	Load cell connections on j-box loose.	Securely fasten connections.
	J-box error	Open j-box and look for obvious damage.
	Load cell errors	Test mV/v levels, at 1.5 mV per 1,000 lb, test ohms.
Scale carriage is not fitting securely on forklift during installation.	May have to use electric grinder to grind down the centering pin on the forklift scale or center slot on forklift.	Discuss with local terminal manager to determine if maintenance group or scale dealer is to perform this chargeable service.
	May have to grind or torch down the area where the top cleats of the forklift scale are mounted.	
	May have to grind or torch side of forklift carriage due to previously installed side shift protection method.	

Table 4-2. Troubleshooting (Continued)

4.3 ASCII Character Chart

Use the decimal values for ASCII characters listed in Tables 10-8 and 10-9 when specifying print format strings under the CLS-920i PFORMT menu. The actual character printed depends on the character mapping used by the output device.

The CLS-920i can send or receive any ASCII character value (decimal 0–255). Due to limitations of the indicator display, some characters cannot be shown.

Control	ASCII	Dec	Hex	ASCII	Dec	Hex	ASCII	Dec	Hex	ASCII	Dec	Hex
Ctrl-@	NUL	00	00	space	32	20	@	64	40	`	96	60
Ctrl-A	SOH	01	01	!	33	21	A	65	41	a	97	61
Ctrl-B	STX	02	02	"	34	22	B	66	42	b	98	62
Ctrl-C	ETX	03	03	#	35	23	C	67	43	c	99	63
Ctrl-D	EOT	04	04	\$	36	24	D	68	44	d	100	64
Ctrl-E	ENQ	05	05	%	37	25	E	69	45	e	101	65
Ctrl-F	ACK	06	06	&	38	26	F	70	46	f	102	66
Ctrl-G	BEL	07	07	'	39	27	G	71	47	g	103	67
Ctrl-H	BS	08	08	(	40	28	H	72	48	h	104	68
Ctrl-I	HT	09	09	)	41	29	I	73	49	i	105	69
Ctrl-J	LF	10	0A	*	42	2A	J	74	4A	j	106	6A
Ctrl-K	VT	11	0B	+	43	2B	K	75	4B	k	107	6B
Ctrl-L	FF	12	0C	,	44	2C	L	76	4C	l	108	6C
Ctrl-M	CR	13	0D	-	45	2D	M	77	4D	m	109	6D
Ctrl-N	SO	14	0E	.	46	2E	N	78	4E	n	110	6E
Ctrl-O	SI	15	0F	/	47	2F	O	79	4F	o	111	6F
Ctrl-P	DLE	16	10	0	48	30	P	80	50	p	112	70
Ctrl-Q	DC1	17	11	1	49	31	Q	81	51	q	113	71
Ctrl-R	DC2	18	12	2	50	32	R	82	52	r	114	72
Ctrl-S	DC3	19	13	3	51	33	S	83	53	s	115	73
Ctrl-T	DC4	20	14	4	52	34	T	84	54	t	116	74
Ctrl-U	NAK	21	15	5	53	35	U	85	55	u	117	75
Ctrl-V	SYN	22	16	6	54	36	V	86	56	v	118	76
Ctrl-W	ETB	23	17	7	55	37	W	87	57	w	119	77
Ctrl-X	CAN	24	18	8	56	38	X	88	58	x	120	78
Ctrl-Y	EM	25	19	9	57	39	Y	89	59	y	121	79
Ctrl-Z	SUB	26	1A	:	58	3A	Z	90	5A	z	122	7A
Ctrl-[	ESC	27	1B	;	59	3B	[	91	5B	{	123	7B
Ctrl-\	FS	28	1C	<	60	3C	\	92	5C		124	7C
Ctrl-]	GS	29	1D	=	61	3D	]	93	5D	}	125	7D
Ctrl-^	RS	30	1E	>	62	3E	^	94	5E	~	126	7E
Ctrl-_	US	31	1F	?	63	3F	_	95	5F	DEL	127	7F

Table 4-3. ASCII Character Chart (Part 1)

ASCII	Dec	Hex	ASCII	Dec	Hex	ASCII	Dec	Hex	ASCII	Dec	Hex
Ç	128	80	á	160	A0		192	C0	a	224	E0
ü	129	81	í	161	A1		193	C1	b	225	E1
é	130	82	ó	162	A2		194	C2	G	226	E2
â	131	83	ú	163	A3		195	C3	p	227	E3
ä	132	84	ñ	164	A4		196	C4	S	228	E4
à	133	85	Ñ	165	A5		197	C5	s	229	E5
â	134	86	ª	166	A6		198	C6	m	230	E6
ç	135	87	º	167	A7		199	C7	t	231	E7
ê	136	88	¿	168	A8		200	C8	F	232	E8
ë	137	89		169	A9		201	C9	Q	233	E9
è	138	8A	¬	170	AA		202	CA	W	234	EA
ï	139	8B	1/2	171	AB		203	CB	d	235	EB
î	140	8C	1/4	172	AC		204	CC	¥	236	EC
ì	141	8D	ì	173	AD		205	CD	f	237	ED
Ä	142	8E	«	174	AE		206	CE	Î	238	EE
Å	143	8F	»	175	AF		207	CF	Ç	239	EF
É	144	90		176	B0		208	D0	°	240	F0
æ	145	91		177	B1		209	D1	±	241	F1
Æ	146	92		178	B2		210	D2	³	242	F2
ô	147	93		179	B3		211	D3	£	243	F3
ö	148	94		180	B4		212	D4	ó	244	F4
ò	149	95		181	B5		213	D5	ö	245	F5
û	150	96		182	B6		214	D6	¸	246	F6
ù	151	97		183	B7		215	D7	»	247	F7
ÿ	152	98		184	B8		216	D8	°	248	F8
Ö	153	99		185	B9		217	D9	·	249	F9
Ü	154	9A		186	BA		218	DA		250	FA
ø	155	9B		187	BB		219	DB		251	FB
£	156	9C		188	BC		220	DC		252	FC
¥	157	9D		189	BD		221	DD	²	253	FD
Pts	158	9E		190	BE		222	DE		254	FE
f	159	9F		191	BF		223	DF		255	FF

Table 4-4. ASCII Character Chart (Part 2)

5.0 Specifications

Power

Line voltage: 9 to 36 VDC, DC input

Power Consumption

1.5 A max fused at 5.0

Temperature

Certified: 14°F to 104°F (-10°C to 40°C)

Operating: 14°F to 122°F (-10°C to 50°C)

Wireless LAN Option

Contains FCC ID: R68WIPORATG

Range: Up to 328 ft indoors

Operating Frequency: ISM 2.4 GH

Warranty

Two-year limited

Approvals



NTEP

06-074, 5,000 lb only, Class III, 1,000d

Measurement
Canada
Approved

Measurement Canada

AM-5893, Class III



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