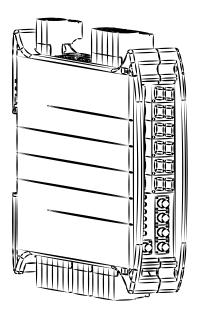
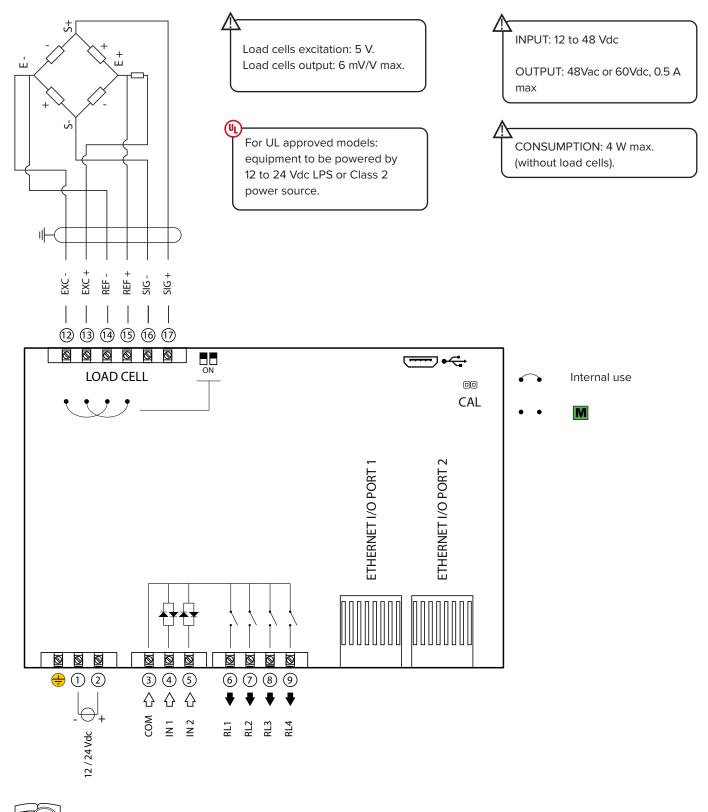
Quick Start Guide





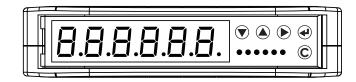
PN 219716 Rev A

1. Electrical Schematic



Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals Warranty information is available at www.ricelake.com/warranties

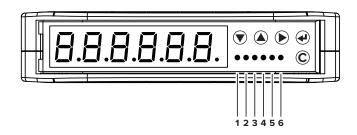
2. Key Functions



Configuration menu		
▼	Decreases digit / Scrolls down.	
	Increases digit / Scrolls up.	
	Enters the setup. Selects digit to modify.	
◄	Enters a step / Confirms.	
С	Clears / Exits a step (no save).	

Weighing mode			
	Clears the displayed gross weight.		
	Short press: executes semiautomatic tare. Long press: allows to enter known tare.		
	Activates / deactivates the function.		
+	Short press executes data transmission on the printer serial port. Long press: Setpoint configuration.		
С	ON/Standby of the instrument.		

3. Indicator Light Descriptions



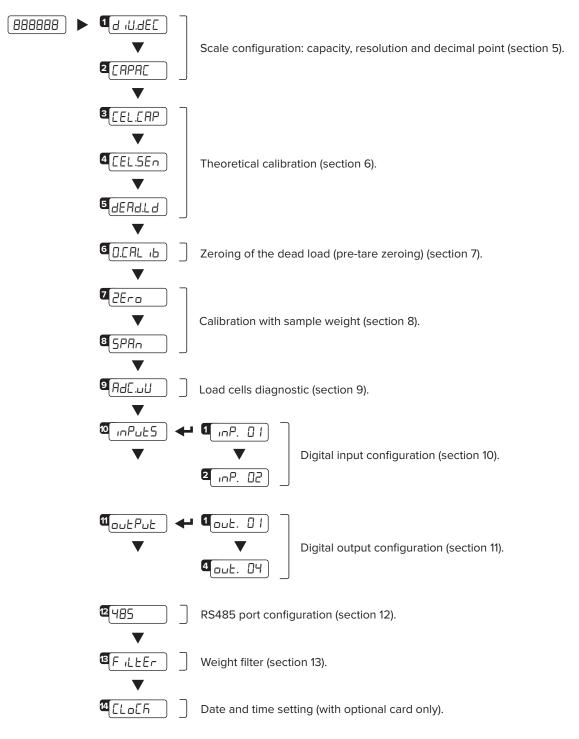
1	Weight on zero.
2	Unstable weight.
3	A tare is active.
4	A function is active.
5	Digital output 1 is active.
6	Digital output 2 is active.



4. Configuration Menu

1. Reboot the weight transmitter

2. Press the key when display shows the 888888 message:



HOW TO EXIT THE MENU AND SAVE YOUR CONFIGURATION

1. Press C key repeatedly until SAUEP appears; press ← to save or press C to exit without saving.



5. Maximum Scale Capacity, Increment and Decimal Point Settings



Set the decimal point position and the minimum scale increment*¹ (0.001-0.002-0.005-0.01-0.02-0.05-0.1-0.2-0.5-1-2-5-10-20-50).

Set the maximum scale capacity*2 (max 999999).

Examples: For a 60000 lb scale, with 2 lb increment: d .U..dE[= 2 CRPRC = 60000

For a 10000 g scale, with 0.1 g increment: d .U..dEE = 0.1 ERPRE = 10000.0 For a 3000 lb scale, with 0.05 lb increment: d .U..dEC = 0.05 CRPRC = 3000.00

^{*1} Increment = the amount that the scale will increment by as weight is added or removed.

^{*2} Maximum capacity = the maximum weight that can be measured using the scale you are creating.

888888 3 CELEAP Set the total load cells capacity (up to 999999). 4 CELSEN Set the load cells sensitivity (up to 999999). 5 dEAd.Ld Dead load weight (from -9999.9 to 99999.9.). 3. Set in [[EL.5En] the theoretical signal 2. Set in [[EL_CAP] the total load cells 1. Set (d ,U.dEC) and (CAPAC value of the load cells. capacity (sum of the nominal load cell (section 4). capacities). **4.** Enter in (dERdLd) step. The display 5. Save calibration (Press C key many shows the theoretical dead load times until <u>SRUE</u> message will value. Modify the value and/or confirm appear, then press 🗲 to confirm). with 🖊.

6. Theoretical Calibration



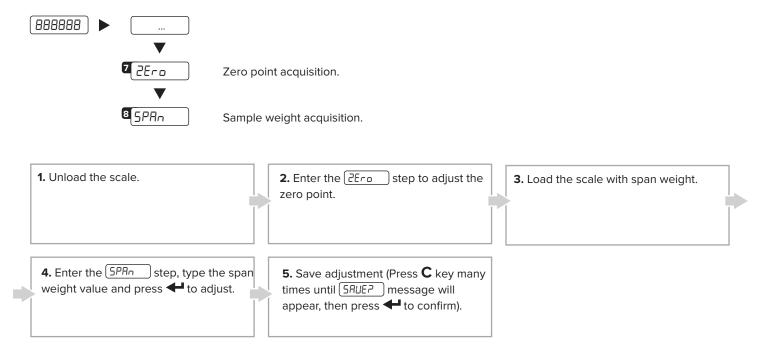
7. Zero Mechanical Tare (pre-tare zeroing)



Zeroing of the pre-tare (or mechanical tare).

This functionality allows to zero the weigh of the scale structure (e.g. empty silo, conveyor, etc.) without changing the calibration in memory.

8. Calibration with Sample Weight



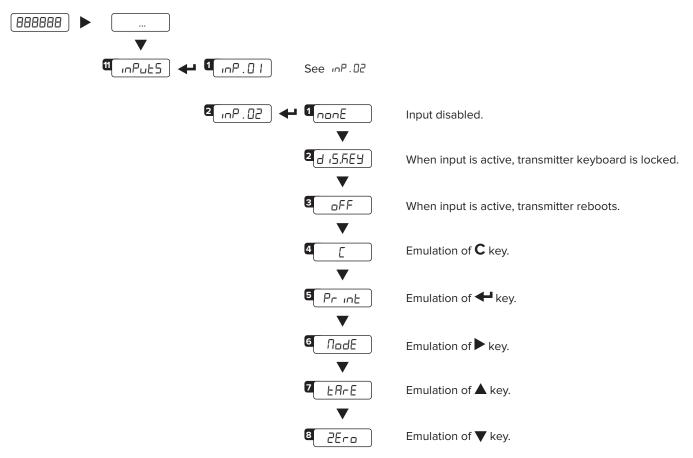
9. Load Cells Diagnostics (µV/V)



It allows to verify signal of each channel. It must be included into the range 0 to 3 mV/V. Signal have to be stable and it have to increase by increasing the weight on the scale.

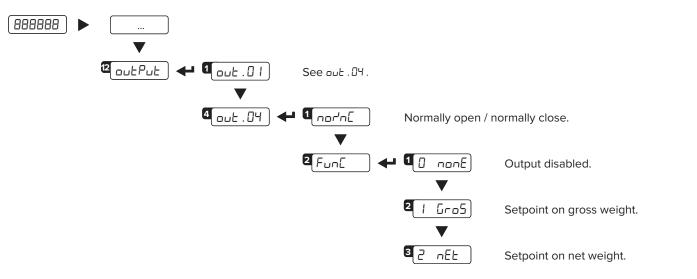


10.Input Settings

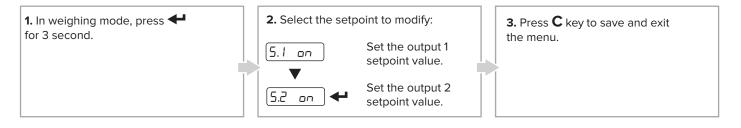




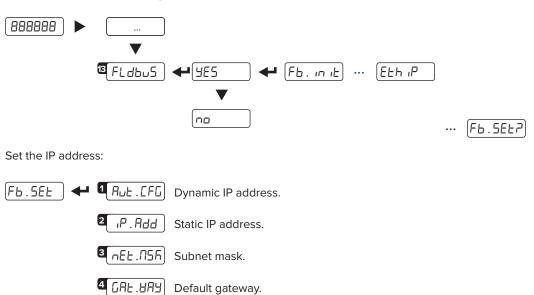
11. Output Settings



11.1 HOW TO PROGRAM SETPOINTS



12.Fieldbus Settings





13.Weight Filter



The active weight filter is displayed, alternating with the weight value. Press \blacktriangle and \blacktriangledown keys to scroll through the available filters (from slowest to fastest, F1 to F11).

14.Programming Errors

MESSAGE	DESCRIPTION	SOLUTION	
PrEC.	Calibration error	First calibrate the zero point (2Ero), then proceed with sample weight acquisition (5PAn) (section 9).	
Err.Pnt	Calibration error	Check the connection of the load cell. Verify the load cell signal stable, valid and greater than the previously acquired point.	
Er II	Calibration error	Increase the calibration weight.	
Er 12	Calibration error	Check the signal from the load cell increases when weight is incremented on the scale.	
Er 37	Calibration error	Repeat calibration and verify capacity and division have been correctly set.	
Er 39	Instrument not configured	Transmitter needs to be configurated.	
C.Er. 36	Calibration error	Verify the signal from the load cell is not negative.	
C.Er. 37	Calibration error	Verify the signal from the load cell is not negative.	
ErrJot	Weight unstable	Check in RdE . ull parameter that the signal is stable. If the connection of the cells is with 4 wires, check that the sense jumpers are inserted.	
RdC.Err	A/D converter error	Converter failure. Reboot the instrument.	
EEL.Err	Global load cell error	Signal anomaly: check the load cells connection.	



15.Ethernet/IP

15.1 ETHERNET/IP REGISTERS

Data	Byte	DESCRIPTION			
Gross weight	0 _(MSB) 1 2 3 _(LSB)	Bytes 1, 2, 3 and 4 contain the Gross Weight value.			
Net weight	4 _(MSB) 5 6 7 _(LSB)	- Bytes 5, 6, 7 and 8 contain the Net Weight value.			
Input status	8 _(MSB)	Bit 15 Bit 14Active channel.Bit 14 Bit 13Active channel.Bit 13 Bit 13No function.Bit 12 Bit 12No function.Bit 12 Bit 11 Bit 10 Bit 10 Bit 10 Bit 9 Bit 19 Status of input n. 2.Bit 9 Bit 8 (sb)Status of input n. 2.Bit 9 Bit 8 (sb)Status of input n. 1.			
register	9 _(LSB)	Bit 7 _(msb) 1 = Scale unloaded (gross weight = 0). Bit 6 Tare PT (1 = PT tare is active). Bit 5 Tare (1 = Tare is active). Bit 4 Overload condition (0 = No; 1 = Overload). Bit 3 Underload condition (0 = No; 1 = Underload). Bit 4 Overload condition (0 = No; 1 = Underload). Bit 3 Underload condition (0 = No; 1 = Stable). Bit 4 Overload condition (0 = "+"; 1 = "-"). Bit 7 Net Weight Polarity (0 = "+"; 1 = "-").			
	10 _(MSB)	Last received command.			
Command status register	11 _(LSB)	Bit 7 (msb)Last command result.Bit 6Last command result.Bit 5Last command result.Bit 4Last command result.Bit 3Counting of processed commands.Bit 2Counting of processed commands.Bit 1Counting of processed commands.Bit 2Counting of processed commands.Bit 1Counting of processed commands.Bit 0(jsb)Counting of processed commands.			
	12 (MSB)	No Function.			
Output status register	13 _(LSB)	Bit $7_{(msb)}$ No functionBit 2No function.Bit 1Digital output 2 status (0 = OFF; 1 = ON).Bit 0_{(sb)}Digital output 1 status (0 = OFF; 1 = ON).			
Selected page	14 _(MSB) 15 _(LSB)	Shows the value of the selected page (3001).			
μV	16 _(MSB) 17 _(LSB)	μV value.			

15.2 ETHERNET/IP REGISTERS FOR COMMAND SENDING

Data	Byte	DESCRIPTION		
Not used	0	Always 0.		
		Main available commands:		
		Value Command		
		00 Hex No command		
		01 Hex Scale zeroing		
		02 Hex Tare		
Command	1	03 Hex Preset Tare		
		0A Hex Setpoint 1 setting		
		OB Hex Setpoint 2 setting		
		19 Hex Digital output setting		
		22 Hex Reboot the weight transmitter		
	-			
	2 _(MSB)	First parameter of the command. Parameter is always expressed in absolute mode (no decimals, no sign).		
Parameter 1	3			
	4			
	5 _(LSB)			
	6 _(MSB)	Second parameter of the command.		
Parameter 2	7			
i arameter z	8	Parameter is always expressed in absolute mode (no decimals, no sign).		
	9 _(LSB)			
	10 _(MSB)	Used in advanced configuration, refer to the complete Fieldbus manual for further information.		
31 _(LSB)				

EXAMPLE 1

For zeroing the weight on the scale:

2. Set the command in byte 2

Byte	Value
1	00 Hex
2	01 Hex

EXAMPLE 2

For setting a preset tare of 1000 lb:

1. Set the tare value in parameter 1 (byte 3, 4, 5, 6) 2. Set the command in byte 2

Byte	Value
1	00 Hex
2	03 Hex
3 _(MSB)	00 Hex
4	00 Hex
5	03 Hex
6 (LSB)	E8 Hex

Notes

NOLES		



SCT-1SX-Ethernet/IP	
Notes	



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