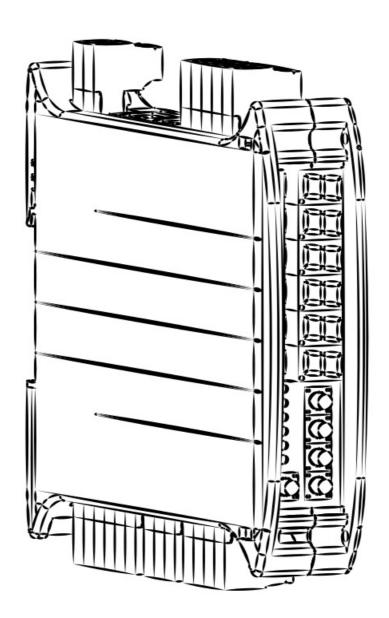


RICE LAKE WEIGHING SYSTEMS SCT-1SX-PROFINET Indicators and Controller User Guide

Home » RICE LAKE WEIGHING SYSTEMS » RICE LAKE WEIGHING SYSTEMS SCT-1SX-PROFINET Indicators and Controller User Guide [™]

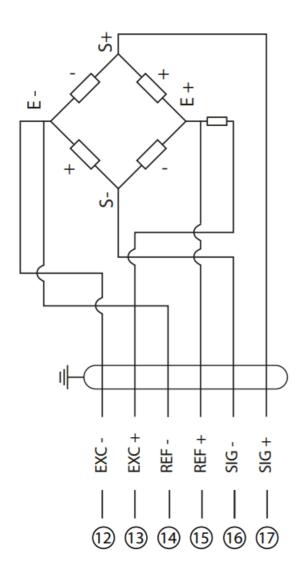
beko RDNE455E40DXBN Mount Freezer Stainless



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Electrical Schematic



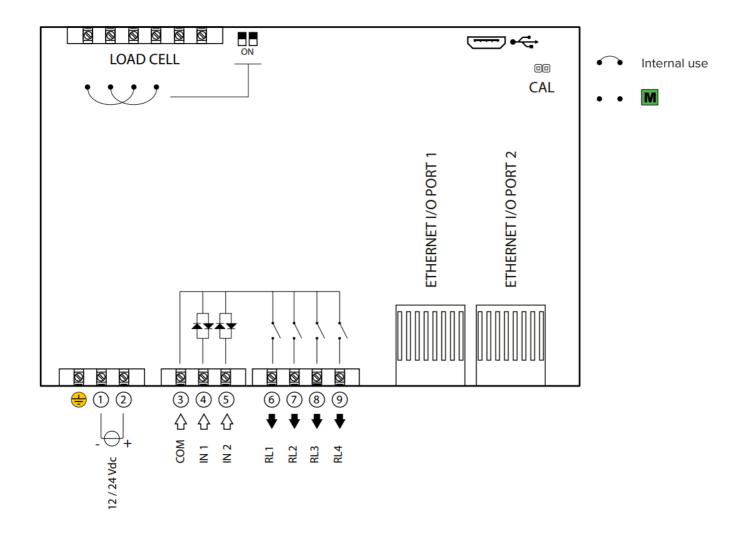
Load cells excitation: 5 V.
 Load cells output: 6 mV/V max.

• INPUT: 12 to 48 Vdc,

OUTPUT: 48Vac or 60Vdc, 0.5 A max

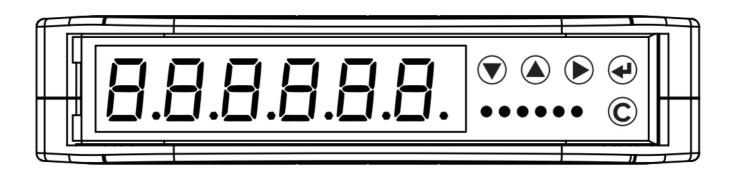
For UL approved models: equipment to be powered by 12 to 24 Vdc LPS or Class 2 power source.

• CONSUMPTION: 4 W max. (without load cells).



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

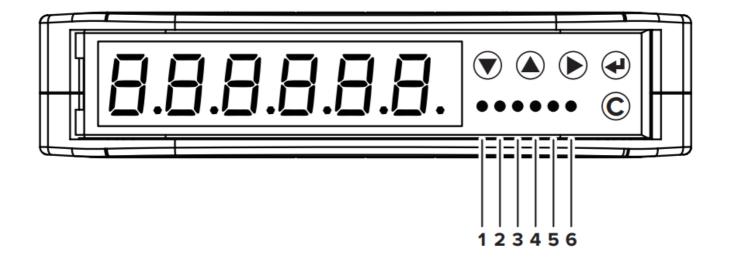
Key Functions



Configuration menu		
	Decreases digit / Scrolls down.	
	Increases digit / Scrolls up.	
	Enters the setup. Selects digit to modify.	
4	Enters a step / Confirms.	
C	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.	
C	ON/Standby of the instrument.	

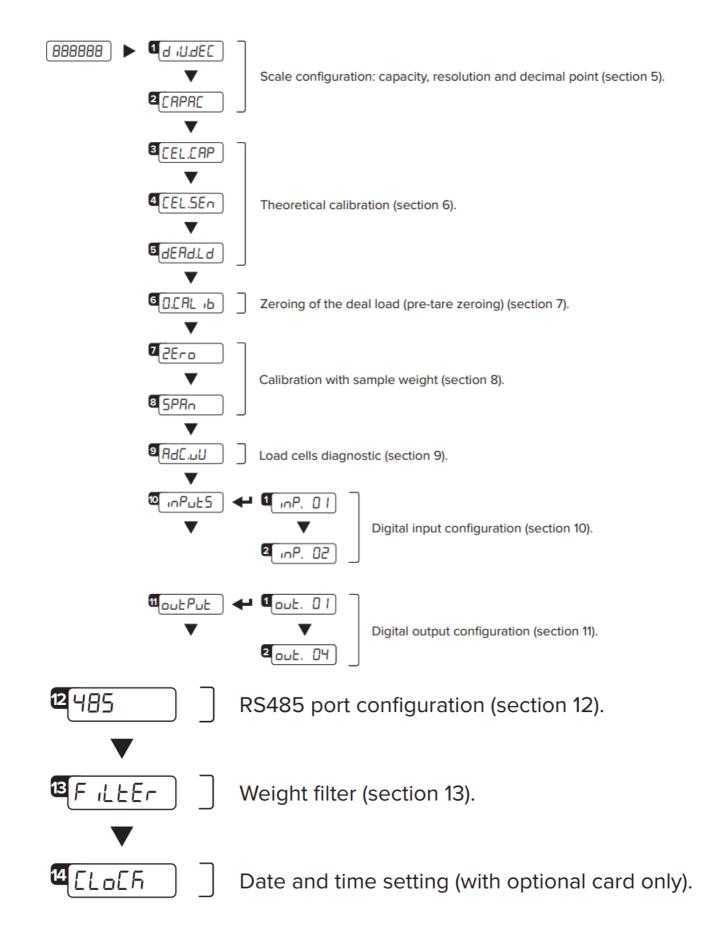
Indicator Light Descriptions



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.		

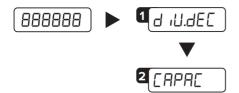
Configuration Menu

- 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 save? appears; press to save or press C to exit without saving



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: div.deC = 2

CapaC = 60000

For a 10000 g scale, with 0.1 g increment:

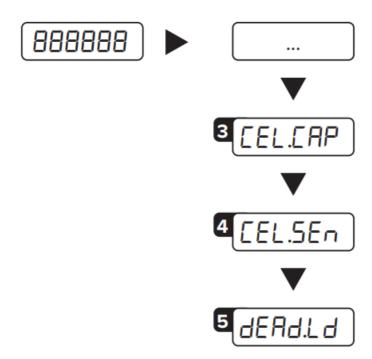
div.deC = 0,1 CapaC = 10000,0

For a 3000 lb scale, with 0.05 lb increment:

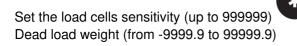
div.deC = 0,05 CapaC = 3000,00

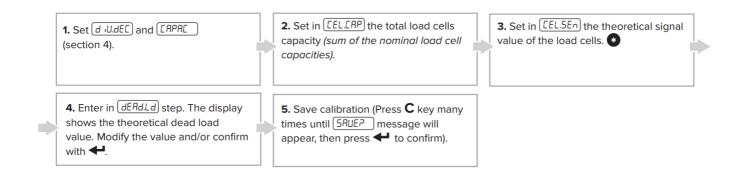
- *1 Increment = the amount that the scale will increment by as weight is added or removed.
- *2 Maximum capacity = the maximum weight that can be measured using the scale you are creating.

Theoretical Calibration

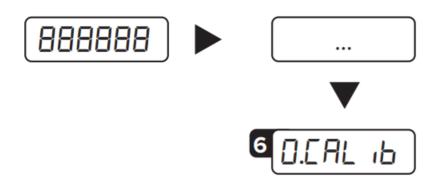


Set the total load cells capacity (up to 999999).





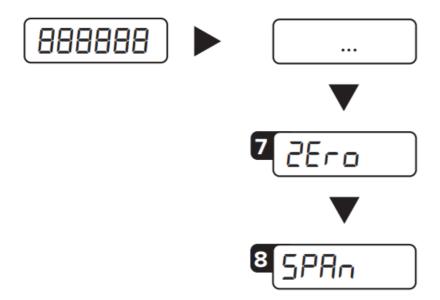
Zeroi Mechanic Tare (pre-tare zeroing)



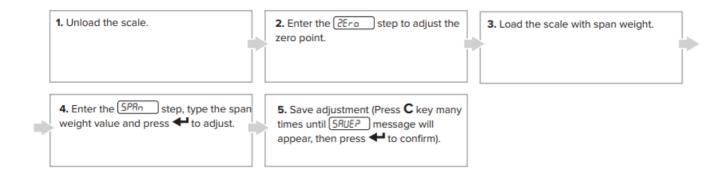
Zeroing of the pre-tare (or mechanical tare).

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

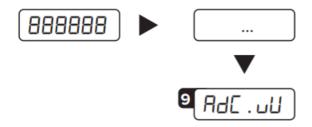
Calibration with Sample Weight



Zero point acquisition. Sample weight acquisition.

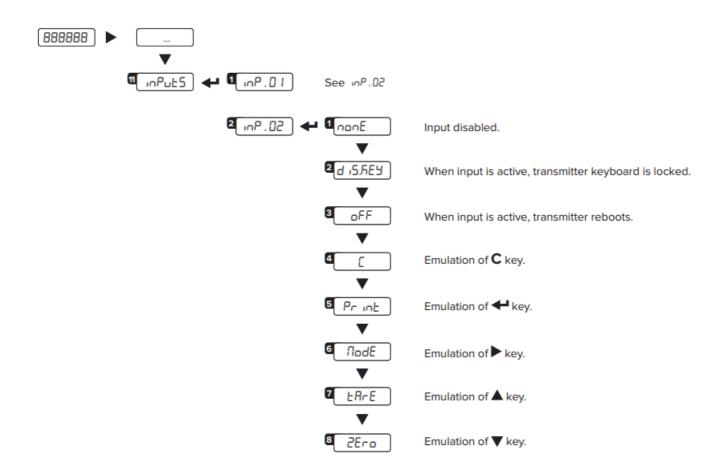


Load Cell Diagnostics (µV/V)

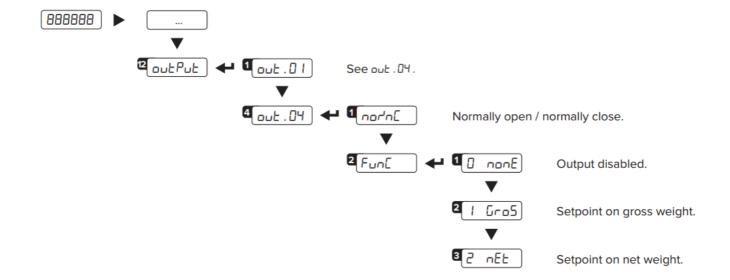


It allows to verify signal of each channel. It must be included into the range 0 to 3 mV/V. Signal have to be stable and it have to increase by increasing the weight on the scale.

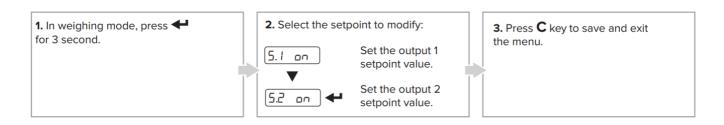
Input Setting



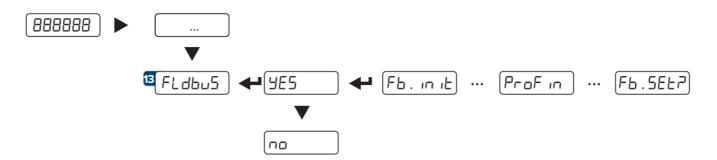
Output Settings



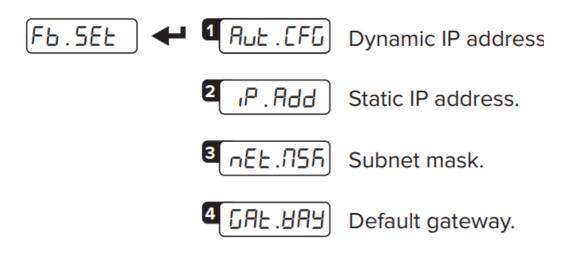
HOW TO PROGRAM SETPOINTS



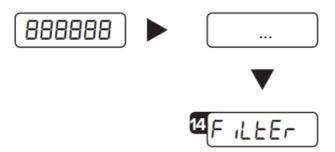
Fieldbus Settings



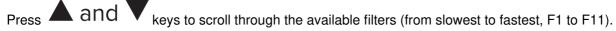
Set the IP address:



Weight Filter



The active weight filter is displayed, alternating with the weight value.



Programming Errors

MESSAGE	DESCRIPTION	SOLUTION	
PrEC.	Calibration error	First calibrate the zero point (zero), then proceed with sa mple weight acquisition (span) (section 9).	
Err.Pnb	Calibration error	Check the connection of the load cell. Verify the load cell signal is stable, valid and greater than the previously acquired point.	
Er 11	Calibration error	Increase the calibration weight.	
Er 12	Calibration error	Check the signal from the load cell increases when weig ht 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.	
Err.Not	Weight unstable	Check in PdC . ull parameter that the signal is stable. If the connection of the cells is with 4 wires, check that the sense jumpers are inserted.	
AdC.Err	A/D converter error	Converter failure. Reboot the instrument.	
CEL.Err	Global load cell error	Signal anomaly: check the load cells connection.	

Profinet

PROFINET REGISTERS

Data	Byte	DESCRIPTION					
	O _(MSB)						
	1		Bytes 1, 2, 3 and 4 contain the Gross Weight value.				
Gross weight	2	∃ Bytes 1					
	3 _(LSB)						
	4 _(MSB)						
Net weight	5	Rytae F	Duton F. C. 7 and 9 contain the Net Weight walks				
Net weight	6	- Dytes c	Bytes 5, 6, 7 and 8 contain the Net Weight value.				
	7 _(LSB)						
Input status reg ister	8 (MSB)	Bit 15 _(MS) Bit 14 Bit 13 Bit 12 Bit 11 Bit 10 Bit 9 Bit 8 _{(L} SB)	Bit 15 _(MSB) Active ch Bit 14 Active Channe Bit 13 No function. Bit 12 No function. Bit 11 No function. Bit 10 No function. Bit 9 Status of input r Bit 8 (LSB) Status of in Bit 15	n. 2.	Active Channel Channel 1 Channel 2 Channel 3 Channel 4		
	9 _(LSB)	Bit 7 ₍ MSB) Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0 _{(L} SB)	1 = Scale unloaded (gross weight = 0). Tare PT (1 = PT tare is active). Tare (1 = Tare is active). Overload condition (0 = No; 1 = Overload). Underload condition (0 = No; 1 = Underload). Weight Stability (0 = Unstable; 1 = Stable). Gross Weight Polarity (0 = "+"; 1 = "-"). Net Weight Polarity (0 = "+"; 1 = "-").				
	10 _(MSB)	Last received command.					

Command statu s register	11 _(LSB)	Bit 7 ₍ MSB) Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0 _{(L}	Last command result. Last command result. Last command result. Last command result. Counting of processed commands.		
		SB)	Counting of processed communities.		
	12 _(MSB)	No Fun	No Function.		
Output status re gister	13 _(LSB)	Bit 7 ₍ MSB) Bit 2 Bit 1 Bit 0 _{(L} SB)	No function No function. Digital output 2 status (0 = OFF; 1 = ON). Digital output 1 status (0 = OFF; 1 = ON).		
Salastad paga	14 _(MSB)	Chave the value of the calcated page (2001)			
Selected page	15 _(LSB)	Shows the value of the selected page (3001).			
μV	16 _(MSB)	μV value.			
μν	17 _(LSB)	μν value.			

PROFINET REGISTERS FOR COMMAND SENDING

Data	Byte	DESCRIPTION	
Not used	0	Always 0.	
Command	1	Main available commands:	
	2 _(MSB)		
Parameter 1	3	First parameter of the command.	
Farailleter i	4	Parameter is always expressed in absolute mode (no decimals, no sign).	
	5 (LSB)		
	6 _(MSB)		
Parameter 2	7	Second parameter of the command.	
Tarameter 2	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

CUSTOMER SERVICES

Visit our website www.RiceLake.com

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September 29, 2023 www.ricelake.com PN 219720 Rev A



Documents / Resources



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SCT-1SX-PROFINET, SCT-1SX-PROFINET Indicators and Controller, Indicators and Controller, Controller

References

- Rice Lake Weighing Systems
- R Manuals | Rice Lake Weighing Systems
- R Warranties
- User Manual

Manuals+, Privacy Policy