

# Quick Setup Guide

## Key Functions

Key	Function
▼ ZERO	In setup: scroll forward through parameters In numeric input: decreases digit to be modified
▲ TARE	In setup: scroll back through the functions In numeric input: increases digit to be modified

Key	Function
▶ MODE	In setup: quickly position the first step of a menu In numeric input: selects digit to be modified, from left to right
↵ PRINT	In setup: enter into a parameter or to confirm a setting In numeric input: confirms the entry made

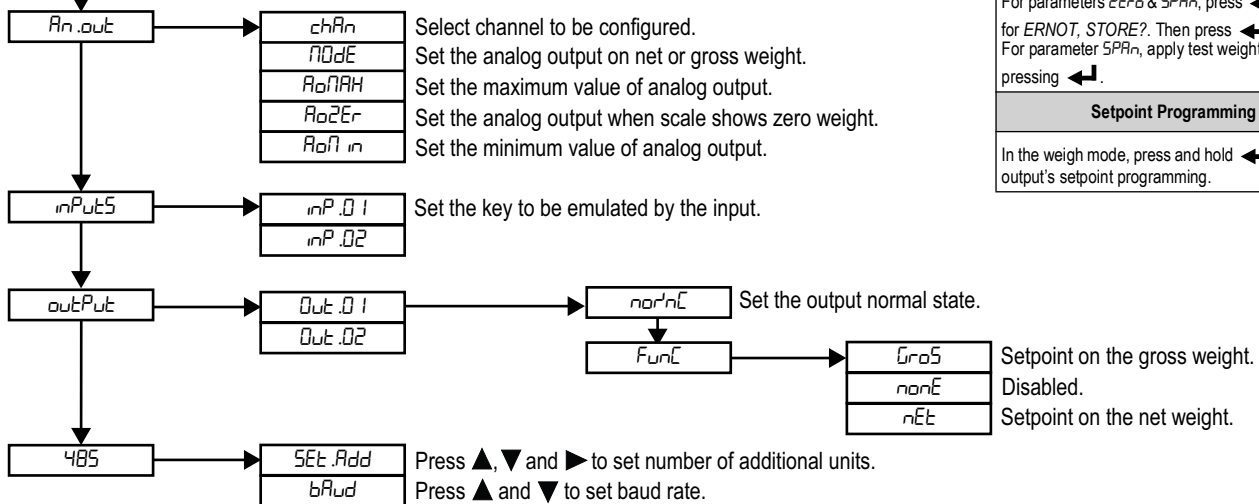
Key	Function
C ON/OFF	Turn the instrument on/off In setup: exit a step without confirming the setting In numeric input: clears the present value

## Setup Menu

1. Press the ON/OFF key (C) to turn the instrument on.
2. Press the mode key (▶) when the firmware version displays to enter the setup menu.
3. Press the print key (↵) in the setup menu to view/select the parameter choices.

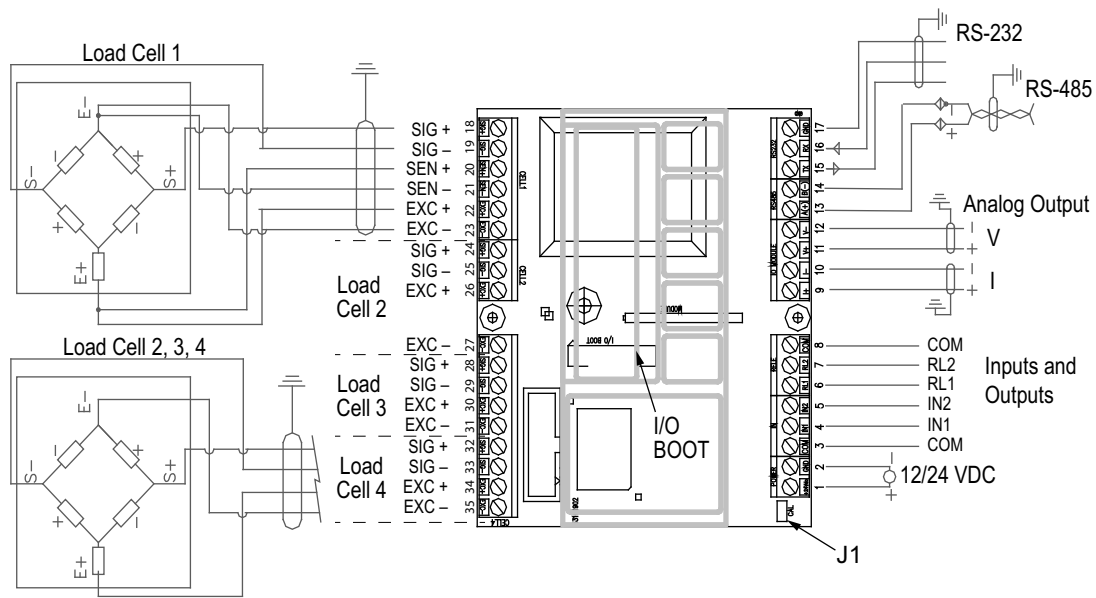
TYPE	Press ▲ and ▼ to set channel type <i>ind.ch</i> , <i>trAnSn</i> , or <i>dEP.ch</i> .
nChAn	Press ▲ and ▼ to select number of channels.
ChAn	Press ▲ and ▼ to select channel to calibrate.
dIU.dEC	Press ▲ and ▼ to set decimals and minimum division.
cAPAc	Press ▲, ▼ and ▶ to set the scale capacity.
cEL.cAP	Press ▲, ▼ and ▶ to set the total capacity of the load cells.
cEL.sEn	Press ▲, ▼ and ▶ to set the mV/V sensitivity of the load cell.
dERd.Ld	Press ▲, ▼ and ▶ to set the dead load present on the load cell.
0.cALib	Quick calibration of zero.
zERo	For new acquisition of zero, with scale empty. Establishes new zero reference.
SPAn	Apply calibration weight. Press ▲, ▼ and ▶ to enter applied calibration weight.
AdC.uU	Check the load cell signal in millivolts.

Default Factory Calibration
The instrument has a default calibration with the following features: Capacity = 10,000 kg Load cell sensitivity = 2.000mV/V Divisions = 1
Theoretical Calibration
Use parameters <i>TYPE</i> , <i>nChAn</i> , <i>ChAn</i> , <i>dIU.dEC</i> , <i>cAPAc</i> , <i>cEL.cAP</i> , <i>cEL.sEn</i> , <i>dERd.Ld</i> to perform a theoretical calibration.
Calibration Using Known Weight
Use parameters <i>TYPE</i> , <i>nChAn</i> , <i>ChAn</i> , <i>dIU.dEC</i> , <i>cEL.cAP</i> , <i>zERo</i> , <i>SPAn</i> to perform a standard calibration with a known weight. For parameters <i>zERo</i> & <i>SPAn</i> , press ↵ and wait for <i>ERNOT</i> , <i>STORE?</i> . Then press ↵ to accept. For parameter <i>SPAn</i> , apply test weight before pressing ↵.
Setpoint Programming
In the weigh mode, press and hold ↵ to access output's setpoint programming.



**Note** When settings are complete press C until the indicator displays *SAVE?*. Press ↵ to save set up and return to weigh mode. Pressing any other key exits the setup and discards changes.

# Wiring Diagram



Pin Number	Label	Description
<b>VE 12-24 VDC Power Supply</b>		
1	+VDC	+12-24 VDC
2	GND	0 VDC (GND)
<b>Inputs and Outputs</b>		
Optoisolated Inputs Positive Logic (12-24 VDC, 5-20 mA max)		
3	COM	Common Output
4	IN1	Input 1
5	IN2	Input 2
<b>Relays</b>		
6	RL1	Relay 1
7	RL2	Relay 2
8	COM	Common Relay

Pin Number	Label	Description
<b>Analog Output</b>		
Voltage		
9	I+	+20 mA
10	I-	-0 mA (GND)
Current		
11	V+	+10 V
12	V-	0 V (GND)
<b>Serial Port</b>		
RS-485		
13	(A) 485 + Line	
14	(B) 485 - Line	
RS-232		
15	TX	Transmission
16	RX	Reception
17	GND	Ground

Pin Number	Label	Description
<b>Load Cell 1</b>		
18	SIG+	Signal +
19	SIG-	Signal -
20	SEN+	Sense +
21	SEN-	Sense -
22	EXC+	Excitation +
23	EXC-	Excitation -
<b>Load Cell 2</b>		
24	SIG+	Signal +
25	SIG-	Signal -
26	EXC+	Excitation +
27	EXC-	Excitation -

Pin Number	Label	Description
<b>Load Cell 3</b>		
28	SIG+	Signal +
29	SIG-	Signal -
30	EXC+	Excitation +
31	EXC-	Excitation -
<b>Load Cell 4</b>		
32	SIG+	Signal +
33	SIG-	Signal -
34	EXC+	Excitation +
35	EXC-	Excitation -



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