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NICOL SCALES & MEASUREMENT

AN ISO/IEC 17025:2017
ACCREDITED CALIBRATION COMPANY

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NICOL SCALES & MEASUREMENT IS AN ISO ACCREDITED CALIBRATION COMPANY THAT HAS PROVIDED CALIBRATION, REPAIR AND SALES OF ALL TYPES OF WEIGHING AND MEASUREMENT PRODUCTS SINCE 1931.

SCT-1100

Quick Setup Guide

Key Functions

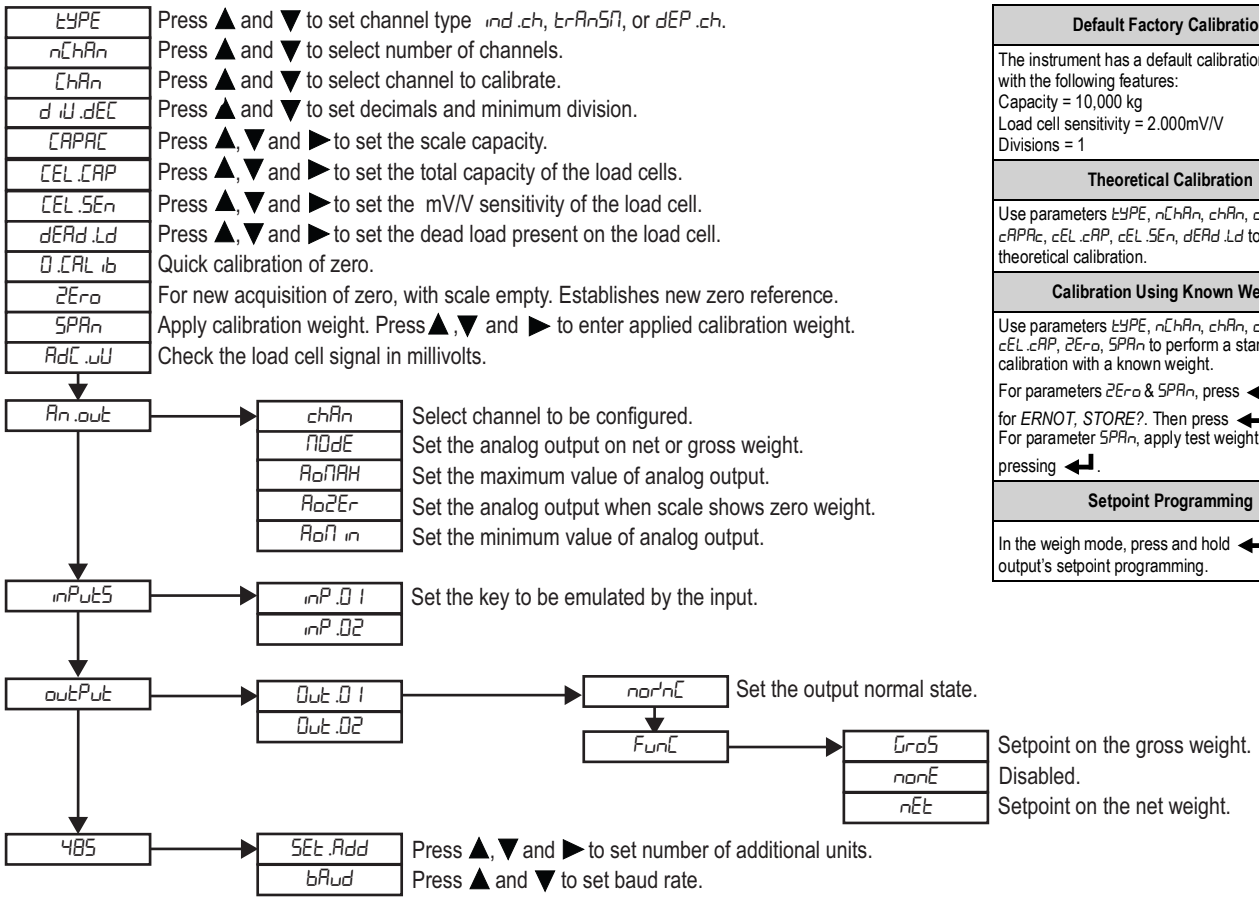
Key	Function
▼ ZERO	In setup: scroll forward through parameters In numeric input: decreases digit to be modified
▲ TARE	In setup: scroll back through the functions In numeric input: increases digit to be modified

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

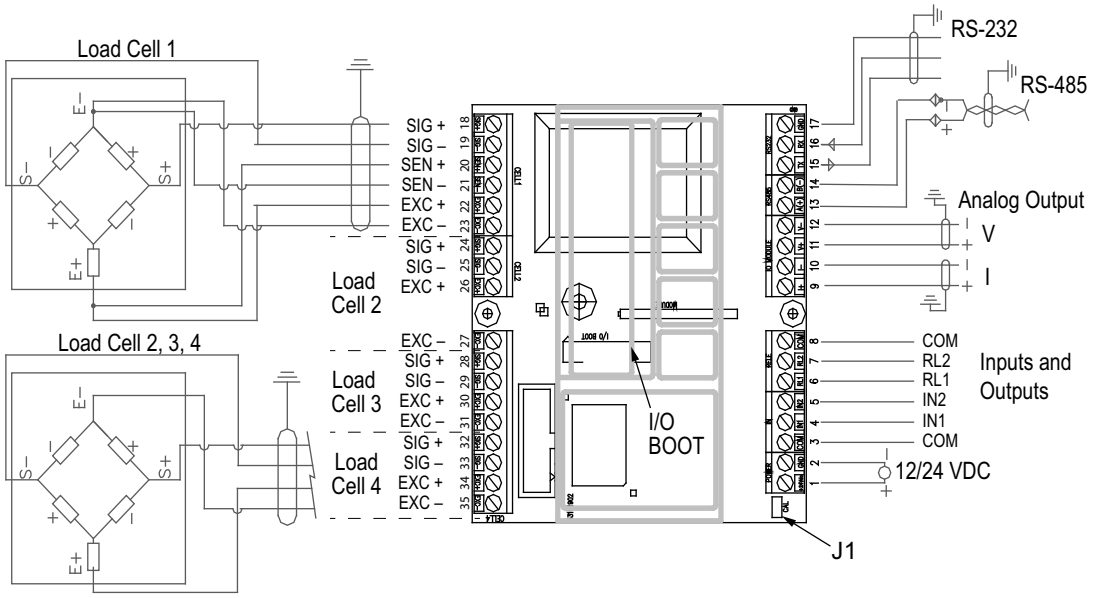
1. Press the ON/OFF key (C) to turn the instrument on.
2. Press the mode key (▶) when the firmware version displays to enter the setup menu.
3. Press the print key (↵) in the setup menu to view/select the parameter choices.



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 tYPE, nChAn, chAn, d iU.dEC, cAPAC, cEL.cAP, cEL.SEn, dEAd.Ld to perform a theoretical calibration.
Calibration Using Known Weight
Use parameters tYPE, nChAn, chAn, d iU.dEC, cEL.cAP, 2Ero, SPAn to perform a standard calibration with a known weight. For parameters 2Ero & SPAn, press ↵ and wait for *ERNOT, STORE?*. Then press ↵ to accept. For parameter SPAn, apply test weight before pressing ↵.
Setpoint Programming
In the weigh mode, press and hold ↵ to access output's setpoint programming.

When settings are complete press C until the indicator displays SAUEP. 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
VE 12-24 VDC Power Supply		
1	+VDC	+12-24 VDC
2	GND	0 VDC (GND)
Inputs and Outputs		
Optoisolated Inputs Positive Logic (12-24 VDC, 5-20 mA max)		
3	COM	Common Output
4	IN1	Input 1
5	IN2	Input 2
Relays		
6	RL1	Relay 1
7	RL2	Relay 2
8	COM	Common Relay

Pin Number	Label	Description
Analog Output		
Voltage		
9	I+	+20 mA
10	I-	-0 mA (GND)
Current		
11	V+	+10 V
12	V-	0 V (GND)
Serial Port		
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
Load Cell 1		
18	SIG+	Signal +
19	SIG-	Signal -
20	SEN+	Sense +
21	SEN-	Sense -
22	EXC+	Excitation +
23	EXC-	Excitation -
Load Cell 2		
24	SIG+	Signal +
25	SIG-	Signal -
26	EXC+	Excitation +
27	EXC-	Excitation -

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

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