PS-series Bench Scale

OPERATING MANUAL



You have purchased a quality precision weighing instrument that requires handling with care.

Read entire contents of this Operation Manual prior to operating your new instrument.

Disclaimer Notice

Calibrate your instrument using reference weights of the appropriate tolerance (class).

An instrument can be no more accurate than the standard to which it has been compared.

For assistance in the selection of reference weights, please contact the factory.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Introduction

Thank you for choosing one of our instruments. Your instrument is designed and manufactured to the most rigorous standards in order to give you years of service. First, check the contents of the shipping carton. You should find the following:

* Manual * Instrument * AC Adapter

Next, follow the instructions for installing your instrument.

Now you are ready to begin using your instrument. To take advantage of its many features, carefully read your operating manual.

It contains step-by-step procedures, examples, and other vital information.

Warning: Use of this product in a manner not specified by the manufacturer may impair any safety protection provided by the equipment!

Specifications

Model	PS 20		
Readability	6000d		
Range	30kg/60kg/120kg/300kg/600kg/1200kg/3000kg 60lb/120lb/240lb/600lb/1200lb/2400lb/6000lb		
Display	LCD, height 25mm		
Ambien Temperature	0~40° 85 RH		
Power Supply	9V/500mA, AC adapter		
	Built in 6V Rechargeable-battery.		
	Battery operating limited at 5.5V and display will show		
	LabRet . In this time the instrument should be charged.		

Preparation

This product is intended for indoor use.

- * Select a suitable work area.
- * Work area should be relatively free from drafts and vibrations.
- * Work surface should be level and rigid.
- * Do not locate near magnetic material or equipment/instruments which use magnets in their design.
- * Avoid area which have variations in room temperatures or have excessive room temperatures. Room temperatures above 40 °C or below 0 °C could affect instrument operation and accuracy.

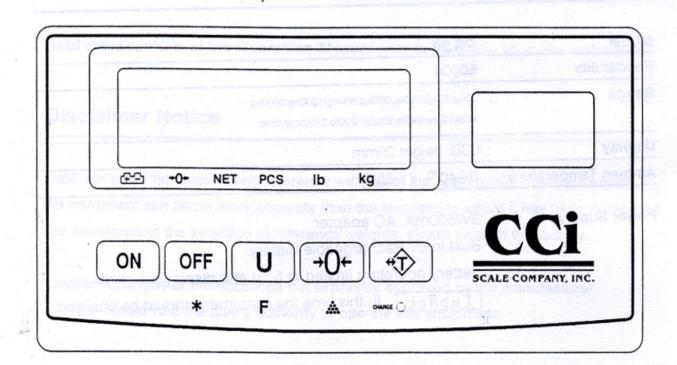
Installation

Remove instrument and accessories from the carton.

Save packing material for transportation purposes.

- * If using the AC adapter, insert power cord into the receptacle located on the side Panel of the unit (behind On/Off switch). Firmly push in the plug.
- * Allow the instrument to warm up for 30 minutes prior to use.

 Your instrument features a numeric display that continuously shows your weighing results.



Function keys

Cartural to the	
ON	Turns instrument On.
	Can be used for print out. (option)
pomesu datif	es de les de la la la grandita de la papara la la papara la para la participa de la participa
OFF	Turns instrument Off.
TODAY SVISSO	
U	Used for parts counting.
	operation and audyrady.
→0 +	Captures a new center of zero.
	notalista
+\$	Reduce gross weight on pan as tare weight.
(A)	This key used for piece count sampling.
F	Function key

Optional key

1. Taring (Zeroing)

All models have taring (zeroing) capabilities up to their total weight capacity. To weigh a sample in it's container with the display showing the weight of the sample use the following Zero (tare) procedure.

- a. Place sample container on pan and then press A key.
- b. Now place sample in it's container.
- c. When the balance is stable, the display shows the weight of the sample.

2. Counting Function

- a. Count the desired amount sample pieces (10, 20, 50 or 100 total pieces)
- **b.** Pres (key to display total count numbers of 10, 20, 50 or 100.

This number will cycle, press key gain to select sample size once It is displayed. The arrow at the bottom of the display will point to " PCS ".

- c. You are now ready to perform parts counting of those specific pieces.
 - Press F key for he total weight.

Repeat step a through c for each type of piece to be counted.

_		asitcae00
		Shown on the dislpay
1.	Please have the jumper Jp3 switch OFF	
	before you start to calibrate weight.	
2.	Press and hold any key while powering ON.	er evod vestrom sA
	The system goes to Calibration mode.	
3.	Press 🕀 key goes to UNITS mode.	Uni Ł.L.b
	Press U key to select Calibrating units in Ib or kg .	Un. E. 5
4.	Press key goes to CAPACITY mode.	רייות
	Press U key to select Maxium Capacity.	[.2000]
5.	Press 🕁 key goes to SPAN mode.	
	(Offset value to be displayed around 5000 ~ 50000)	12222
6.	Press +0+ key to make display to zero.	
7.	Put on the calibrating weight in lb.	b. Pres (A) key
	(Span value to be 50000 ~ 150000 at full capacity)	122222
8.	Press key to cycle through a list of permissible weights.	It is displayed.
	When the weight on the scale is displayed, press 👈 key	20000
	the weight calibrating to be done.	E. TOU STE DOW 194

After finish the weight calibration, make the Jp3 switch ON. Now you are ready to weigh.

Programme

		Snown on the disipay:
Press and hold any key w	hile powering ON. The disp	lay will shows
Press U key goes to p	rogramme sequence.	Saud rate 2460 /9400
Press U key for paran	neter selecting and	4848
Press 👈 key for settin	g and goes to next step. T	he programme sequence as follows
		C. Connections : 08-products 2
A. Auto zero	AO O	None
	AO I	ATZ 1d
	AO 5	ATZ 2d
		A see one ox
B. Auto power off	Roff D	None
	ROFF 1	5 minutes after
	ROFF 2	10 minutes after
	ROFF 3	20 minutes after
	(ROFF 4)	30 minutes after
		: beat 1970
C. Backlit	bL 0	None
	L L	Active
	PT 5	Auto lighting while loading
D. Print output		Land Under (oad)
b. Fillit output	Pr 0	None
	Pr I	Manual
E. Baud rate	(br9600)	Baud rate 9600
	br2400	Baud rate 2400
		gnar gninglere
F. Units	Unit D	kg only
	Unit 1	kg/lb

RS232C Specifications & connections

A. Specification:

Baud rate: 2400 /9600

Parity : none

Data bit : 8

Stop bit : 1

C. Connections: DB-09 Male

pin no. 2 5 others

TXD GND

NC

B. Data format:

NO 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

G R SP X X X X X X X SP k/l g/b CR LF
N T SP X X X X X X X SP k/l g/b CR LF
T A SP X X X X X X X SP k/l g/b CR LF

Q T Y SP X X X X X SP P C S CR LF

A P W 1 0 0 0 SP X X X X X X X SP k/l g/b CR LF

CR LF

CR LF

CR LF

Characters denoted by " X " are characters 0 \sim 9.

Leading zeros are replaced with spaces " SP ".

Error message

Symptom Cause

Solution

Over load :

* Weighing range exceed

> Unload scale or reduce preload

L - - - - J

Under load:

* Weighing pan not in place > Ensure the weighing pan is correctly installed and surrounding parts are

installed and surrounding parts are not touching

* Weighing range zero below > Set scale to zero

* Contact between weighing > Apply pre-load

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Zeroing not possible:

* Zeroing outside the zero setting range

> Ensure that zeroing is performed in the admissible range (20% of Cap.)