NDC-Series DUAL CHANNEL SCALE

NDC-1.5L/NDC-3L/NDC-7.5L/NDC-15L/NDC-3OL NDC-1.5H/NDC-3H/NDC-6H/NDC-15H/NDC-3OH

OPERAING 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	NDC-1.5L	NDC-3L	NDC-7.5L	NDC-15L	NDC-30L	NDC-1.5H	NDC-3H	NDC-6H	NDC-15H	NDC-30H
Range	1.5kg	3kg	7.5kg	15kg	30kg	1.5kg	3kg	6kg	15kg	30kg
Readability	0.1g	0.2g	0.5g	1g	2g	0.05g	0.1g	0.2g	0.5g	1g
Pan size		66d 815	STEEDING L		265 x 2	205 mm				
Dimensions	(LxWxH) 320 x 275 x 110 mm									
Net Weight	4 kg									
Power	9V/500mA, AC adapter included.									
Scale B capacity	y			30 kg	~ 12 to	on ava	ilable			

Preparation

This product is intended for indoor use.

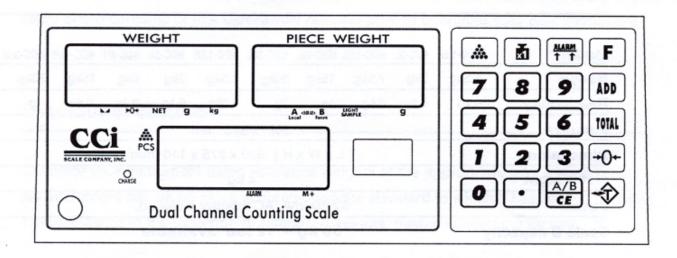
- * Select a suitable work area.
- * Work area should be relatively free from drafts and vibrations.
- * Work surface should be level and rigid.
- * Do not locate near magnetic materials or equipment/instruments which use magnets in their design.
- * Avoid areas which have variations in room temperatures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

On/Off Switch	Turns instrument On or Off.				
0~9	Numeric keys. Used for setting numeric data for tare weight, sample number, sample weight, or limit number of checking.				
-0+	a. Captures a new center of zero.b. Cancel the memorized data in total mode.				
	Reduce gross weight on pan as tare weight.				
•	Used for set the decimal position of the tare weight, sample weight.				
A/B CE	a. Used for toggle switch between SCALE A or B.b. The CE key to be used for clear entry of numeric setting.				
	Used for parts counting.				
5	Used for setting the know piece weight data.				
ALARM T T	Used for the alternation of changing normal counting and check operation.				
ADD	Used for accumulating the sub-total data.				
TOTAL	Used for the alternation of changing normal counting and memory data recall.				
F	Function key.				

Operation

A. Getting Started

Turn the instrument on by pressing the power switch on.

The display will down count from 999999 . . . while the unit is being updated.

Allow the unit to warm-up for 30 minutes.

B. Taring (zeroing)

All models have taring (zeroing) capabilities up to their total weight capacity.

To weigh a sample in its container with the display showing the weight of the sample use the following ZERO (tare) procedure.

For reducing the tare weight from the scale, there are two methods, one is push button tare and the other is keyboard tare.

1. Push button tare

- a. Place sample container on pan and then press the key and then NET indicator turn on and the WEIGHT display shows zero.
- b. Now place sample in its container.
- c. When the scale is stable, the display shows the weight of the sample.

2. Keyboard tare

- a. Set the know tare weight data to the scale using the numeric and decimal keys.
 Set data is displayed in the PIECE WEIGHT display with flickering.
- **b.** Press \longrightarrow key.
- c. Set tare weight displayed in the WEIGHT display is cleared to zero.
- d. Clearing the previous tare value. Remove weight from the pan then press key, so that NET indicator turn off and the WEIGHT display returns to zero.

C. Accumulation function

- Press ADD key can be accumulating the sub-total piece counts one time.
 The next accumulation must be return to zero and got new piece counts.
 The indicator turns ON at M+.
- 2. Press well key can be used for alternation of changing normal counting.

 and memory data recalling.
- 3. The +0+ key can be used to delete all datas in **Grand-Total**. The indicator turns OFF.

D. Counting Function

1. PIECE COUNT setting	
a. Press the key, the display shows 5PLE 100	0.000 100
(sample size can be changeable)	PU
b. Count the desired sample pieces	رمم الا
and put on the pan.	
c. When the stable indicator lights on,	<u></u>
the averaged piece weight will be	יב [מַבַּבָבַם
caliculated automatically.	100
Now you can count bulks.	
2. PIECE WEIGHT setting (In case of piece weight is already	ady know)
a. Set the piece weight data by the numeric keys and decimal	point key.
The number to be shown in PIECE WEIGHT display with flic	ckering.
b. Press the key, the piece weight setting to be done.	
c. Press the and key, to cancel the piece weight s	etting.
3. Piece weight alarm Light sample indicator will flickering whe	n the averaged
piece weight or set piece weight is not enough for accurate co	ounting operation.
Operator may use scale even this indicator is flickering, but c	ounting error may occur.
E. Alarm functions	
1. Alarm setting	
This function is designed for packing purpose. For example,	if the operator wish to
count 100 pieces for every package, he can set the uppe	
a. Press the ALRM key	ch 0
b. Press the key 1 0 0	ch 100
c. Press the key, to return normal counting function.	
The indicator turns ON at Alarm .	
After such setting, if total quantity reached 100 or over,	
scale will be sounds bi-bi-bi	
2. Alarm release	
a. Press the (ALARM) key	ch 22
b. Press the key and ALASM	
The alarm indicator turns OFF.	

Programme

Press and hold any key wi	hile powering ON. Th	ne display will shows	ERL	7				
	ogramme sequenc		Enc.	J				
Press key for seque	nces through the a	vailable parameter	s and					
Press key for setting	and goes to next	step. The programm	ne sequence a	as follows:				
The jumper Jp5 must be	switch OFF in the	step D. And E.						
A Auto nouse off	noss.							
A. Auto power off	Roff	Non						
	ROFF		ninutes after					
	Roff		ninutes after					
	ROFF		ninutes after					
	Roff		ninutes after					
B. Backlit	6L	Non	е					
	6L		Active					
	6L	2 Auto	lighting while	eloading				
C. RS232 out put	Pr	☐ Non	е					
	Pr	{ Enal	ble					
D. Scale A selection	SEL_A 222	1.51	kg ~30 kg	Remote base ca		000 II. V 0 00 III		
E. Scale B selection	SEL_B 0	FF Non	е		150 lb X 0.01 lb 1500 lb X 0.1 lb			
	SEL_6 222	222 30 k	g ~15 ton		15,000 lb X 1 lb			
Calibration	WHEN COMP	LETE PRESS "TA	RE" TO SA	VE				
			Display s					
1. Please have the jump	or Inc switch OFF		Display S	ilows.				
before you start to ca			[F.O.	1				
2. Press and hold any key			[RL					
3. Press 4 key for SCA								
calibration and the QUA		shows	77					
Offset value to be 500			57	222				
If it's not in this range SI								
4. Press →0→ key to zero		own						
on the WEIGHT display			55	222				
5. Put on the calibrating	CHARLES PRODUCE TO A CO.		[77777]	77000				
(Span value to be 200			222222	22.000				
6. Press calibrating number			222	L'L'L'				
then press 🚹 key, the			22.000	0				
7. After finish the weight		the Jp5 switch ON		0				
Now you are ready to	weigh.			6				

Scale B Connections

1. Load Cell connections: (DB-09 Female)

Pin no. 1,2 3 4,5 6,7 8,9

EXC+ GND EXC- SIG+ SIG-

RS232C Specifications & connections

A. Specification:

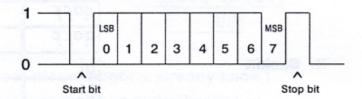
Baud rate: 9600

Parity : none

Data bit : 8

Stop bit : 1

B. Data Stream:



C. Connections: DB-09 Male

pin no. 2 5 others

TXD GND NC

D. RS232C Format:

WT:XXXXX kg APW:XXXXX g QTY:XXXXXXPCS

Error message

Symptom	Cause	Solution
[Over load :	1. Please have the pumper up ballock ballock
	* Weighing range exceed	> Unload scale or reduce preload
L	Under load :	
	* Weighing pan not in place	> Ensure the weighing pan is correctly installed and surrounding parts are not touching
	* Weighing range zero below	> Set scale to zero
	* Contact between weighing	> Apply pre-load
-01-	Zeroing not possible :	
	* Zeroing outside the zero	> Ensure that zeroing is performed
	setting range	in the admissible range (20% of Cap.)