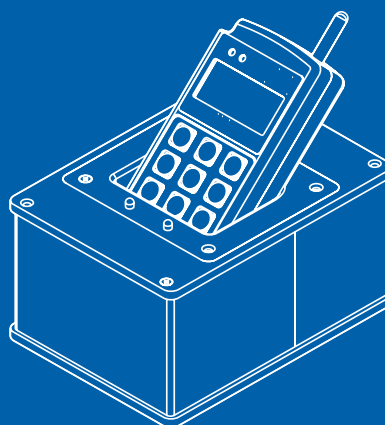


TW-100(B)

Remote Controller



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OWNER'S MANUAL

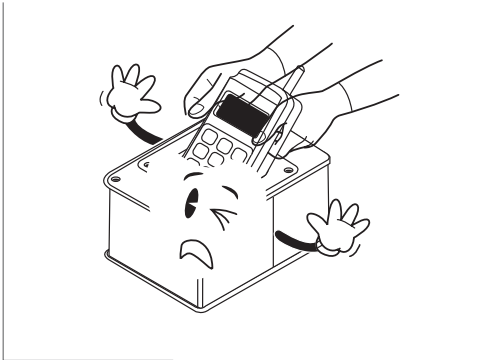
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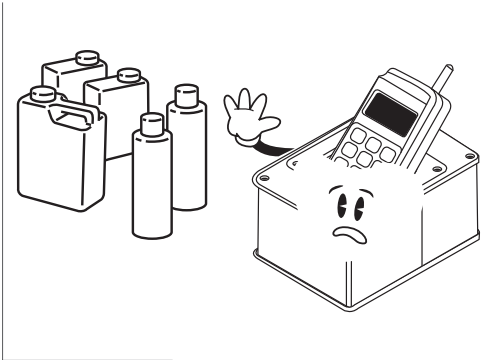
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PRECAUTIONS

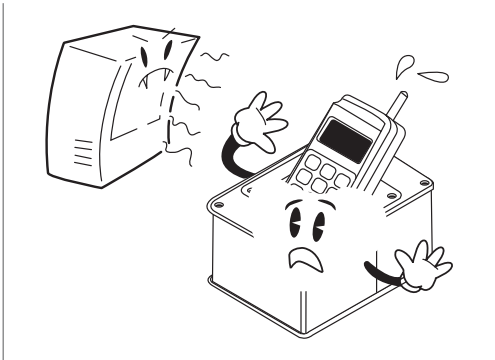
Do not press the keys hard, for it will operate with soft touch.



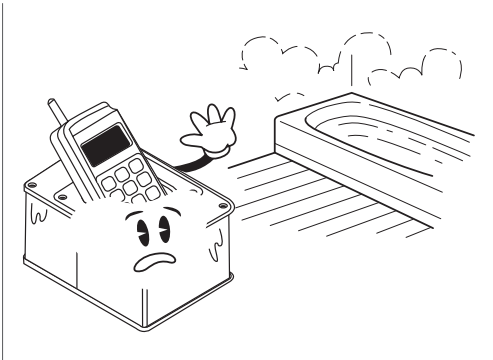
Do not use ignitable materials for cleaning.



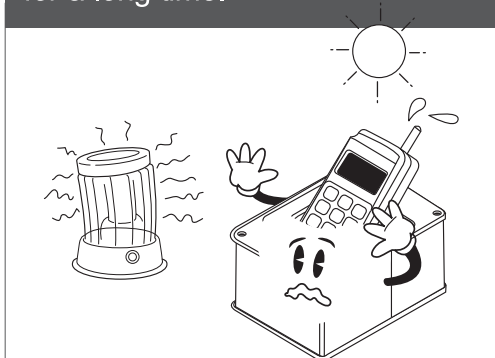
Avoid sudden temperature change.



Keep it in a dry place.

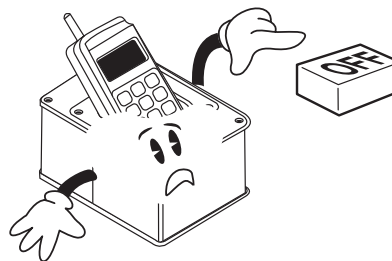
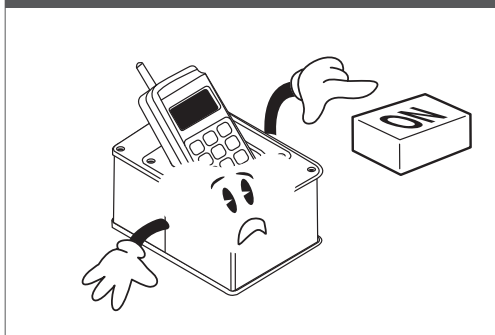


Do not use under the direct sunshine and on the dust place for a long time.



Shift power switch to ON position, when you use it.
(Power switch is located on right-top corner)

Shift power switch to OFF position, when you don t use it for a long time.



INTRODUCTION

Thanks for purchasing **TW-100 BT**.

This goods has held excellent performance and splendid properties through strike tests as well as devoting ourselves under severe quality management.

Before using **TW-100 BT**, it is recommended to read this manual carefully and to use **TW-100 BT** completely.

FEATURES & MAIN FUNCTION

1. Features

- It is connected with CASTON(crane scale) by use of wireless communication.
- Simple operation.
- Adapting high capacity rechargeable battery (DC7.2V,750mA)

2. Main Function

- RS232C serial communication(standard)
- Connectable with serial print.
- Hold Function.
- 1000 set of weight, date, time and the total weight for print can be stored.
- Key operation is possible by using wireless communication technology.
- Print format is customized for the favorite user.

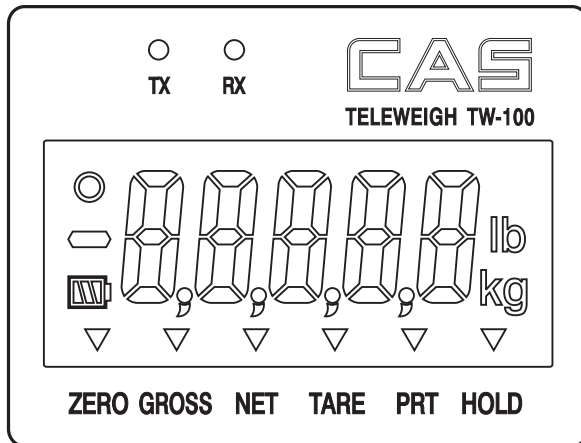
TECHNICAL SPECIFICATION

Technical Specification





Frequency	2400 ~ 2483.5 MHz
Channel interval	1MHz
Channel	78 channel
Communication Type	GFSK(Gaussina Frequency Shilt Keying)
Communication Speed	9600
Actual Communication Distance	Maximum, Approximately 50 ~ 100M
Display	LCD (5 digit)
Size of letter	12mm (Height)
Display below zero	“-“ minus signal
Battery life time	Approx, 6hours
Battery changing time	Approx, 3 ~ 5 hours
Power	TW-100 B : Rechargeable DC Battery 7.2V 750mA Charger : AC220V/60Hz
Power consumption	0.43 ~ 0.72 W
Temperature range	-10℃ ~ +40℃
Function	Printer interface, zero, tare, hold, print, ID setting, welght sum.

Notice) Sometimes it is able to differ communication distance against obstacle.

FRONT SIDE



1. Display & lamp

- lamp : Weight is stable.
- ZERO** lamp : Current weight is in zero range
- GROSS** lamp : Current weight is GROSS.
- NET** lamp : Current weight is NET.
- TARE** lamp : TARE weight is stored.
- HOLD** lamp : HOLD function is activated.
-  lamp : Charged to 97%~100%.
-  lamp : Charged to 91%~96%.
-  lamp : Charged to 84%~90%.
-  lamp : Charged to 50%~83%.
- TX** lamp : Sending the data to CASTON
- RX** lamp : Receiving the data from CASTON

Attention : TW - 100 B has not power off function in itself, please check battery charging condition during operation. If battery charging condition lamp is ' ' , it should be charged.

KEY FUNCTIONS



- ① **SIDE** key
 - POWER ON / OFF
- ②

1 ZERO

 key
 - Return to 0(zero) weight
- ③

2 TARE

 key
 - Used to set tare weight
- ④

8 DATE	9 TIME
-----------	-----------


 key
 - Used to confirm date and time
- ⑤


ID


 key
 - Used to input product ID
- ⑥


SUM


 key
 - Used to store the current weight data


- ⑦  key
 - Used to change date and time

- ⑧  key
 - Used to activate HOLD function or release the function

- ⑨  key
 - Used to check the current voltage of CASTON- B battery
(Actually, power will not be turned off when you off)

- ⑩  key
 - Used to turn the display of CASTON- B ON / OFF
(Actually, power will not be turned off when you off)

- ⑪  key
 - Used to check the total weight

- ⑫  key
 - Used to check the net weight

Notice)  Not used.

GENERAL FUNCTIONS

ON / OFF key is used as cancel key in all modes except normal weighing mode.(Time SET, ID SET, Weight accumulation, and etc.)

1	POWER ON/OFF
	By using side S/W, TW-100 B can be turned On/Off.
	* If you don't use the machine, please turn it off for long battery use
2	Zero function - ZERO KEY
	It can be activated within 10% of maximum capacity only.
	It is not activated when the current weight is unstable.
3	Tare function - TARE KEY
	Remove the weighing material.
	It is not activated when the current weight is unstable.
	The sum of tare weight and the weighing material should not be exceed the maximum capacity of the scale.
4	Hold function - HOLD KEY
	The scale have two kinds of HOLD functions; Average HOLD, Peak HOLD. The function is working according to the HOLD setting in CASTON
	It works and released by pressing HOLD key(toggle switch)
5	TIME function DATE KEY .
	It will display month and date for 2 seconds. Ex)03-05
	TIME KEY - It will display hour and minute for 2 seconds. Ex)12.30
	TIME setting
	Press SET KEY, input year, month, day, minute and press SET key to store
	Order: 'yy =' -> 'mm =' -> 'dd =' -> 'hh =' -> 'mm =' + 'SET'
6	CASTON Display On/Off function . On/Off KEY
	The display of CASTON-III B can be On/Off by using TW-100.
	It is used to cancel in other modes.

7	PRINT function
	Print out the stored data of CASTON-III B via RS-232.
	ID setting . ID KEY
	The Product ID No. is entering from 0000 to 9999.
	After setting Product ID, the ID No. is transmitted by using TW-100 B.
	Press ID KEY to set ID entering mode. (----)
	Press numeric KEY for setting Product ID.
	Press SET KEY to transmit Product ID.
	If you press ID KEY two times, TW-100 display will show the stored Product ID
	Numbers of CASTON-III B.
8	Weight SUM function - SUM KEY
	1) SUM + SET
	Press SUM KEY and SET KEY, then TW-100 will accumulate the current weight.
	2) SUM + CLR
	Press SUM KEY and CLR KEY, then TW-100 will remove the current sum weight.
	3) SUM + SUM
	Press SUM KEY two times, then TW-100 will show the current sum weight.
4) Press ON/OFF Key to release from SUM Mode.	

SET MODE

ENTER	
1)	Keep Pressing HOLD KEY and slide up on/off switch.

DISPLAY	Value	비 고
F0 -	0	Display Unit - kg
	1	Display Unit - lb
F1 -	0	SUM data saving within TW-100.
	1	SUM data saving within Caston3 (When the caston is off, the data will be lost)

TEST MODE

HOW TO ENTER	
1)	Turn on power while pressing ZERO key and TEST mode starts.

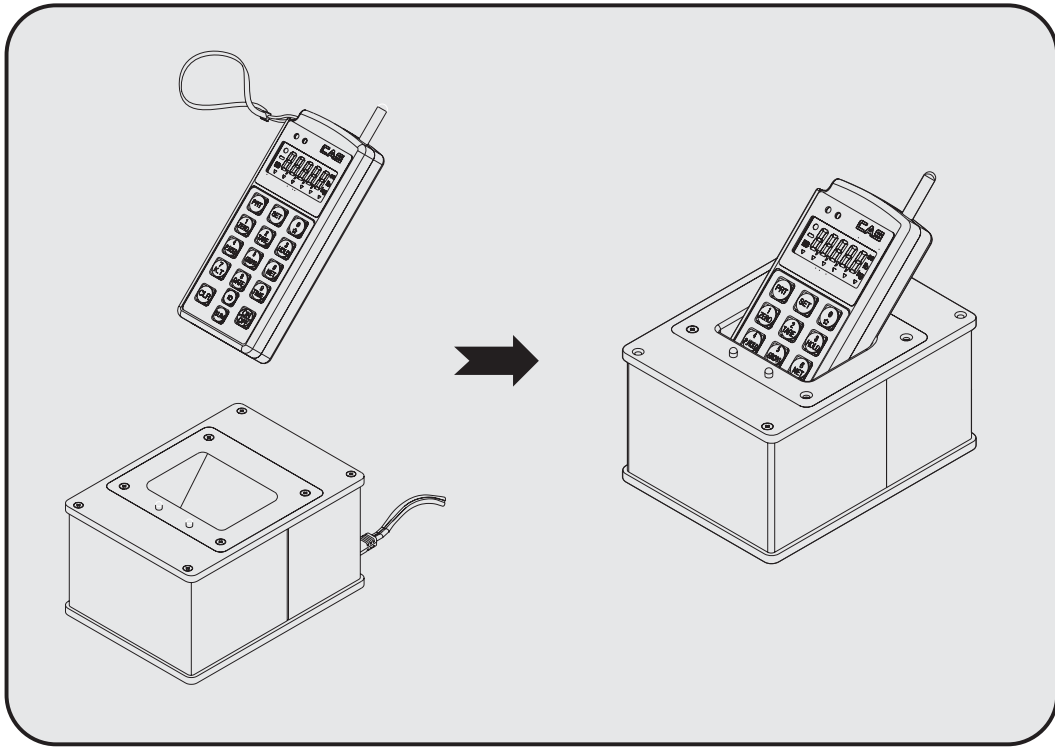
LCD CHECK MODE	
1)	All letters of LCD will be turned on.
2)	Press ON/OFF key to move the next mode.

KEY CHECK MODE	
1)	The LCD window displays "0"-
2)	It will display the key number pressed.
3)	Press ON/OFF key to move the next mode.

COMMUNICATION (RS-232) CHECK MODE	
1)	The LCD window displays "t-r" .
2)	Transmit key number value when one of key 0 ~ 9 is pressed.
3)	ASCII '0 ~ 9' is transmitted, the display of TW-100 will show.
4)	If ON/OFF key is pressed, 'out' message is transmitted and TEST MODE is ended.

LCD DISPLAY	EXPLANATION
tEst 1	All letters of LCD turn on
tEst 2	Displays TW-100key number
tEst 3	Displays the transmitted data of TW-100 and the received data from PC

BATTERY CHARGER

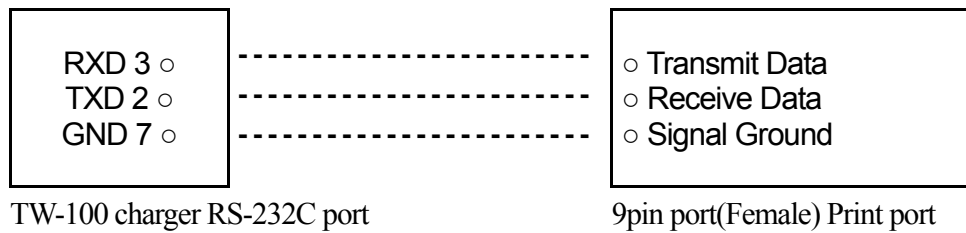


- Insert a TW-100 to a charger and then plug-in as you can see in the picture.
(By default the power is 220V)
- Power lamp(red) is on.
- Charger lamp:When TW-100 is charged completely, the lamp color is changed from red to green
- Charging time:It takes about 4~5 hours, but It depends on discharging state.

INSTALLATION & CONNECTION(PRINT)

► RS232C port is located on the rear of the charger.

(1) Connection of serial printer(Thermal printer)



EXPLANATION FOR ERROR MESSAGE

TW-100 B Kind of error message and explanation		
Err 01	When BT module of TW-100 is no communication with CASTON- B.	TW-100 Power ON/OFF
Bt-Er	When the CASTON B have no signal for 10seconds	CASTON Power ON/OFF

► Although you are repeating power on/off at several times, TW-100 shows error message continuously, please contact to distributor in your country

PRINTER FORMAT

A> F01 → 0 SET

1. Press PRT KEY

CAS CORPORATION

2006.12.14 15:10	⇒	Data and Time
Gross 200kg	⇒	Gross data
Tare : 150kg	⇒	Tare data
Net 50kg	⇒	Net data

2. SUM PRINT(SUM+PRT)

CODE 01, 100kg	⇒	Product Code Sum data
----------------	---	-----------------------

B> F01 → 1

1. Press PRT

CAS CORPORATION

2006.12.14 15:10	⇒	Data and Time
Gross 200kg	⇒	Gross data
Tare : 150kg	⇒	Tare data
Net 50kg	⇒	Net data
SUM 1100kg	⇒	Sum data is not saved (At CASTON-III reset)

MEMO

MEMO

TW-100(B)

Remote Controller



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