E WEIGH THE WORLD

RETAIL WEIGHING SOLUTION™

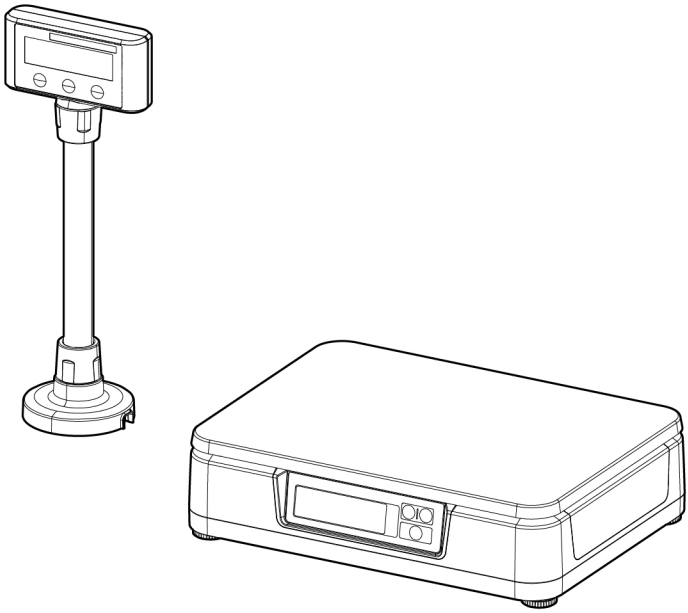
Simple Weighing Scale

PDN

Owner's Manual

Series

If you use the product without familiarity with the product's usage, the product's anomalies are user's books.



CAS

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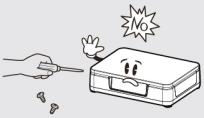
Warning

Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.



Do not disassemble the scale.

When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.

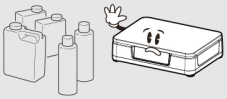
Do not overload beyond the maximum weight limit.

Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.

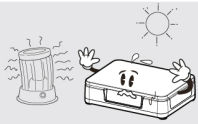
Do not pull the plug by its cord when unplugging.

Damaged cord could cause electric shock or fire.

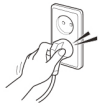


To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.

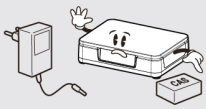
To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.



Avoid placing the scale near heater or in direct sunlight.



Insert plug firmly to wall outlet to prevent electric shock.



Use proper Adapter.

Incorrect adapter could damage the scale.

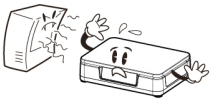
Attention

Make sure to plug your scal into the proper power outlet.
For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.

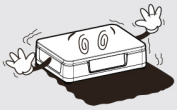
Avoid sudden shock to the scale.

Grab on the bottom of the scale when moving.



Keep the scale away from other electromagnetic enerating devices.

This may interfere with accurate reading.



Place the scale on firm and temperature consistent environment.

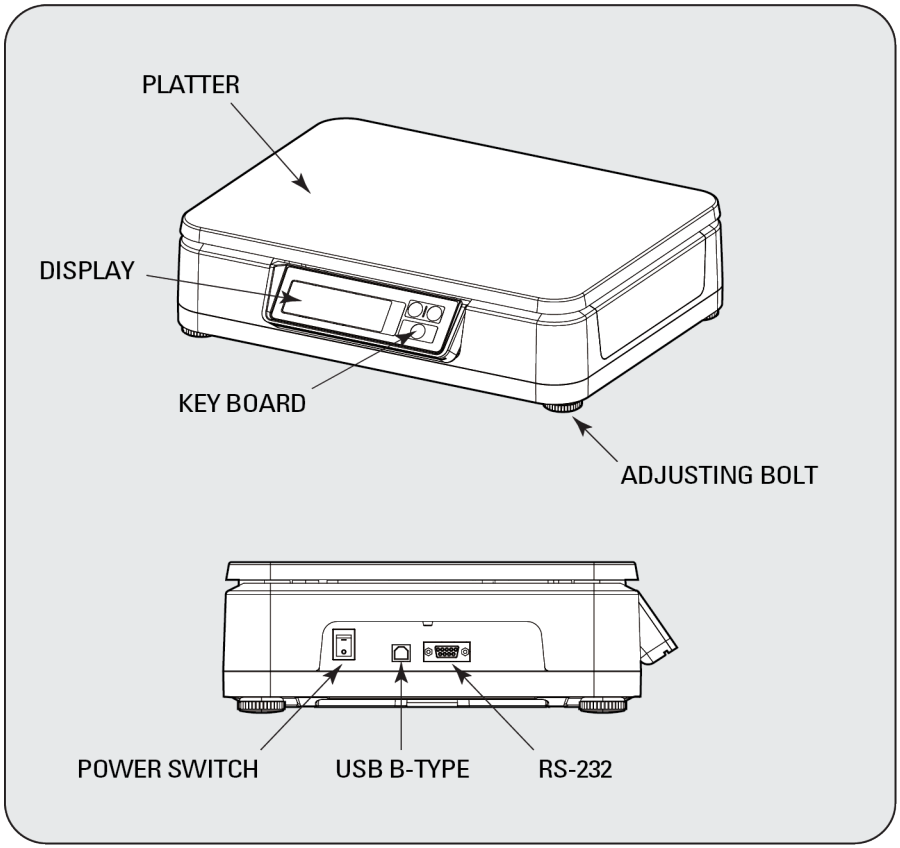
By adjusting 4 comers of the scale, set the scale even using the built in scale leveling indicator.

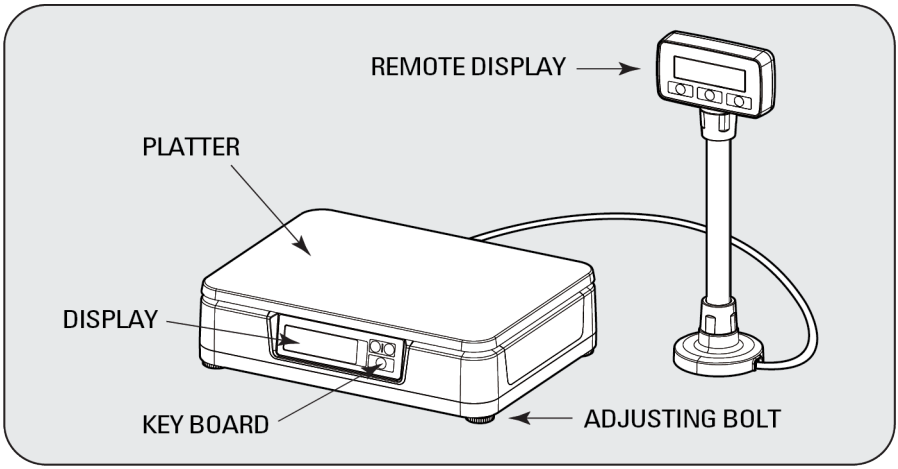
Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.

PREFACE

Thank you for purchasing CAS PDN.
These series have been designed with CAS reliability, under rigid quality control and with outstanding performance. Your special departments can enjoy these high quality reliable CAS products.
We believe that your needs will be satisfied and you will have proper reliability.
This manual will help you with proper operation and care of the PDN.
Please keep it handy for future reference.

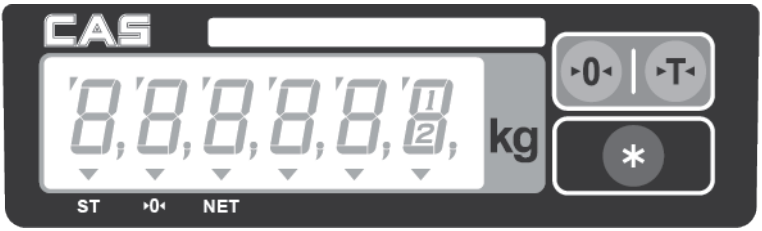
NAMES AND FUNCTIONS



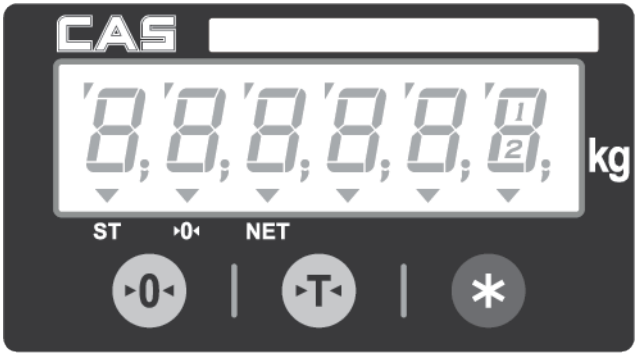

REMOTE DISPLAY
PLATTER
DISPLAY
KEY BOARD
ADJUSTING BOLT

DISPLAY & KEYBOARD

■PDN (MAIN)



■PDN (REMOTE)



■ KEY FUNCTIONS

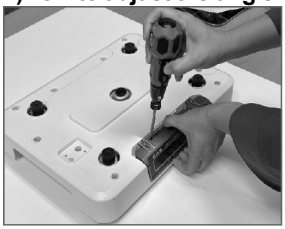
KEYS	FUNCTIONS
→0←	Used to set the zero point. Used as ENTER key in Setup Mode.
→T←	Used to input or cancel the weight of tare. Used as ESC key in Setup Mode.
*	Function key Used as PRINT key in Print Key Mode.

INSTALLATION

- Disassembly is the reverse of assembly.
- Be careful not to damage the wire when removing the display connector.

■How to move the 'DISPLAY'

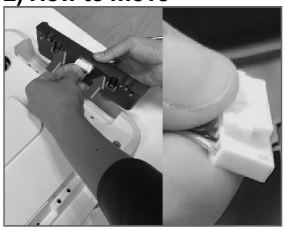
1)How to adjust the angle



① Detach the display.

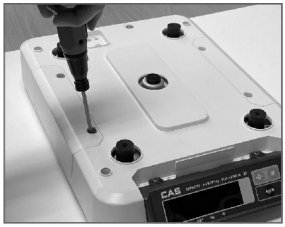
② Adjust the angle if necessary.

2) How to move



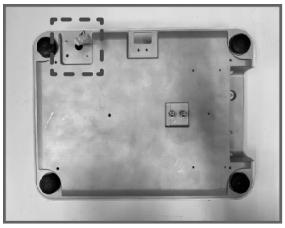
① Move the display & Connect the wire connector.

② Attach the display.



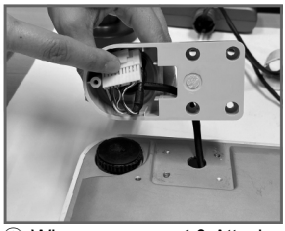
③ Complete by combining bolts.

■How to connect a 'REMOTE D/P' – U Type

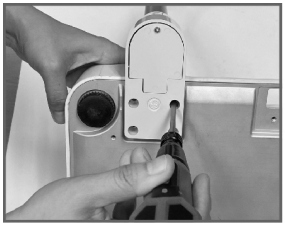


① Check the location to connect the REMOTE D/P.

② Connect the wire connector.

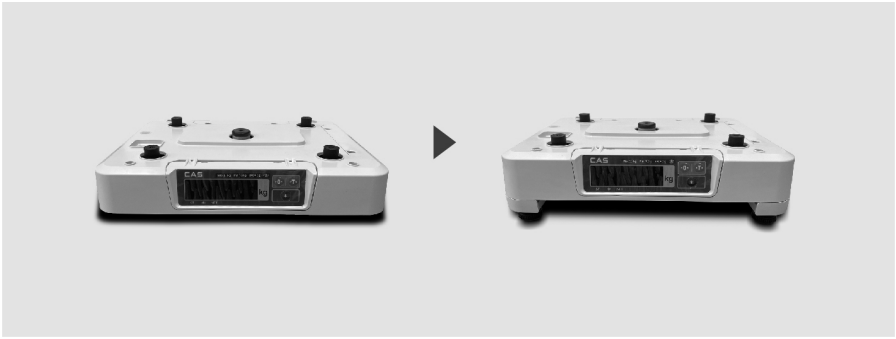


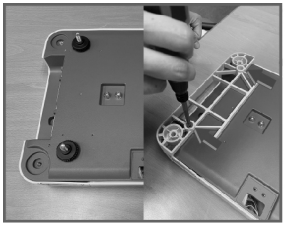
③ Wire arrangement & Attach the bracket cover.



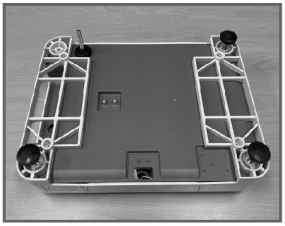
④ Fasten the pole to the body.

■How to connect a ‘DECKs’



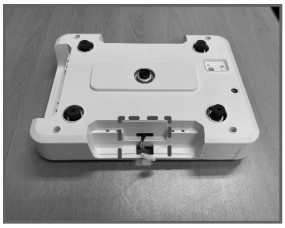


① Detach the foots & Assemble the DECKs.

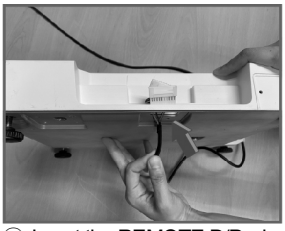


② Assemble the foots.

■How to connect a ‘REMOTE D/P’ – RT / RS / RD Type

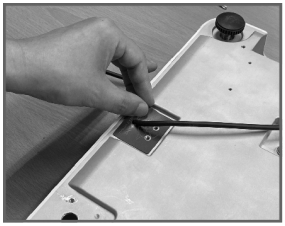


① Check the location to connect the REMOTE D/P.



② Insert the REMOTE D/P wire. (*inside the body)

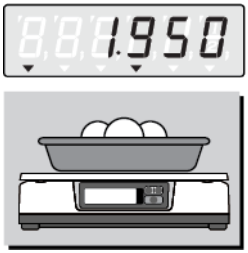
③ Connect the connector & fasten it with a clamp.



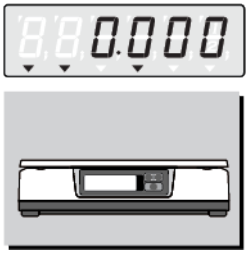
④ Attach a sticker on the bottom surface.

- Turn on the display by pressing power switch. Then, the display will show all the segments and count up "0" to "9".
- When you turn on the display, make sure that platter is empty. Otherwise, display will show "Err 1", an error of initial zero range. Please refer to "ERROR MESSAGE" section for more information on page 14
- When the weight becomes stable the display shows the stable sign (▼) on.
- You may need to make it "0.000" by pressing →0← key unless the display indicate "0.000" under the empty platter.

1. Simple Weighing Mode



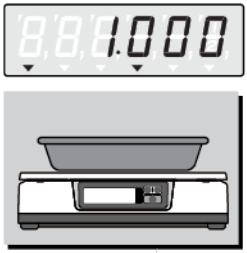
① Place a commodity on the platter.



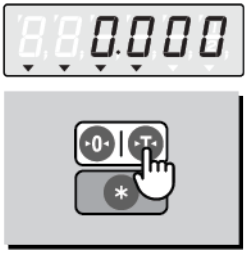
② Remove the commodity from the platter.

2. Weighing with Tare

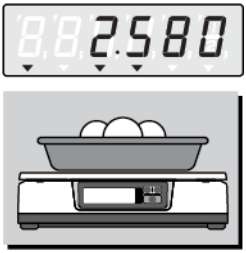
- TARE means the weight of container being used for a commodity.
- TARE key function is to subtract the weight of the container from full weight loaded.



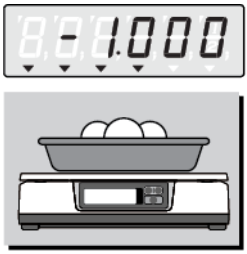
① Place a container on the platter.



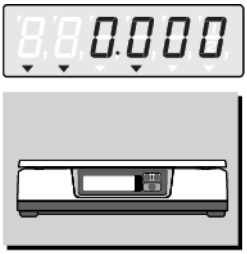
② Press the →T← key. then display will show the "0.00".



③ Place a commodity into the container, then the display will show only the weight of the commodity.



④ Remove container and commodity, then the display will show the weight of the container with "-" symbol.



⑤ Press the →T← key, then display will show the "0.00".

3.SETUP MODE

3-1. How to Go to Setup Mode

Make sure that power is OFF. While pressing the ZERO key, press the power switch. The display shows "U SEt". You can select each menu by pressing the ZERO key and change the setting by pressing the TARE key.
If you press ZERO key, you can save current setting and go next mode.

3-2. Set up Mode Table

No	Category	MENU	SUB MENU	DESCRIPTIONS
1	USB ECR Type	*"typ xx"*		Use USB port select ECR type 0~15
2	RS232 Communication Mode	*"r ECr"* (RS232 ECR)	".typ xx"	Use RS232 port select ECR type 0~15
		" dEp " (DEP-50)	***" noSnd "***	No send protocol
			" K-snd "	Push the key , Print out (Command Mode)
			"S-snd "	Weight is Stable, Print out (After zero return)
			" F-snd "	Print out, continuously (CAS22Byte)
		" dLp " (DLP-50)	***" noSnd "***	No send protocol
			" K-snd "	Push the key , Print out (Command Mode)
			"S-snd "	Weight is Stable, Print out (After zero return)
		" bLE " (BLE Protocol)		Use Bluetooth mode
Key Setting		Tare key- Change menu, change set data. Zero key - Entering menu		

※ *Italic Bold : Default Setting*
※ *xx : ECR Type number*

4. How to Use ECR Protocol

4-1. ECR Port

1) Mode Setting

- If you select USB ECR, you will perform ECR communication through the USB port.
  And in this case you can use printer(DEP, DLP) and BLE protocol.
- If you select RS232 ECR, you will perform ECR communication through the rs232 port.
  And in this case you cannot use printer and BLE protocol.
- You can select different ECR protocols for RS232 and USB.

4-2. ECR Type

1) Mode Setting

- PDN can interface with most ECRs by selecting TYPE 0 to TYPE 15.
  First of all, You must scale's mode setting. Please refer to the page 10.

ECR Type	Protocol
0, 1	Most P.O.S, ECRs and Some TEC P.O.S system
2	SHARP ER-Axxx, ER-A450T, New SANYO ECRs using RS-232, TOLEDO 3212, etc.
3	SHARP ER-Axxx, New SANYO ECRs using RS-232, TOLEDO 3212, etc.
4	CRS, NCR2170, SAMAUNG ER-5100, ER5115 and Many other ECRs
5	NCI General, SAMSUNG ER-5100, ER-5115, Most P.O.S System
6	Samsung ER-670
7	Samsung ECR(SPAIN)
8	Samsung ECR(PORTUGAL)
9	Some P.O.S System
10	Some P.O.S System
12	Most P.O.S System
13	Use in SOUTH AFRICA
14	Use in SOUTH AFRICA, Stream Data
15	Use in SOUTH AFRICA, Stream Data

5. How to Use Ticket Print (DEP Option)

- If you select “dEp”, you cannot use RS232 ECR and BLE protocol.

5-1. No Print Mode (NoSnd)

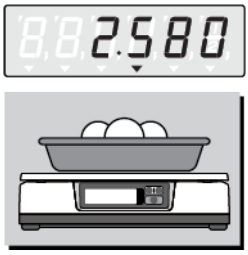
1)Mode Setting

- In this Mode, protocol is not sent to printer. First of all, You must scale’s mode setting. Please refer to the page 10.

5-2. Key Print Mode (K-Snd)

1)Mode Setting

- This Print Mode is ‘Key Printer Mode’. Please refer to the page 10.



①Place a commodity on the platter, then the display will show the weight of the commodity.

② If press the function key , weight is send a printer.

3)Print Out

Key Print Mode

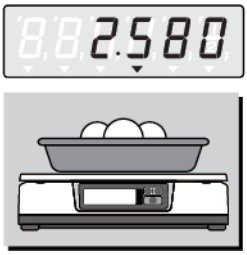
2.580 kg
1.950 kg
0.000 kg

5-3. Stable Print mode (S-Snd)

1)Mode Setting

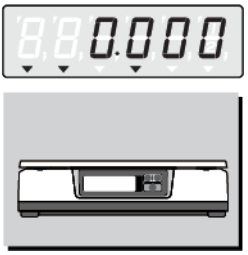
- This Print Mode is 'Stable Mode'. Please refer to the page 10.

2)Print Opreation



①Place a commodity on the platter, then the display will show the weight of the commodity.

② If weight is stable state, You will see ▼ on display and then you listen to the buzzer sound one time.



③ Remove container and commodity, then You can print another commodity weight.

3)Print Out

Stable Print Mode 2.580 kg

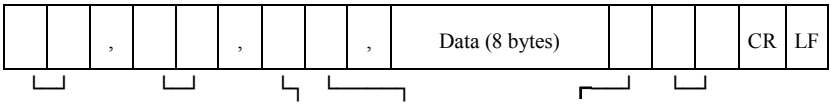
5-4. CAS 22byte (F-Snd)

1)Mode Setting

- This Print Mode is 'Continue Mode' using CAS22Byte. Please refer to the page 10.

2)Protocol

CAS-22 Protocol



US (Unstable)
ST (Stable)
OL (Overload)

GS (Gross weight)
NT (Net weight)

Device ID

Lamp Status byte

Empty

Unit (kg)

▣ Device ID: 0x0

▣ Data (8 bytes): When the weight date including a decimal, for example, 13.5 kg, 8 bytes of ASCII code corresponding to 0', '0', '0', '0', '1', '3', '.' and '5' are sent.

▣ Lamp Status Byte

Bt7	Bt6	Bt5	Bt4	Bt3	Bt2	Bt1	Bt0
1	Stable	0	Hold	Printer	Gross Weight	Tare	Zero Point

6. How to Use Label Print (DLP Option)

- If you select “dLp”, you cannot use RS232 ECR and BLE protocol.

6-1. No Send Mode (NoSnd)

1)Mode Setting

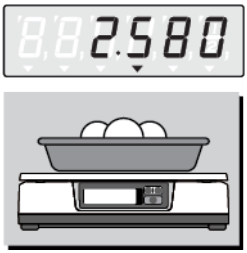
- In this Mode, protocol is not sent to printer. First of all, You must scale’s mode setting. Please refer to the page 10.

6-2. Key Send Mode (K-Snd)

1)Mode Setting

- This Print Mode is ‘Key Printer Mode’. Please refer to the page 10.

2)Print Operation



①Place a commodity on the platter, then the display will show the weight of the commodity.

② If press the function key , weight is send a printer.

3)Print Out

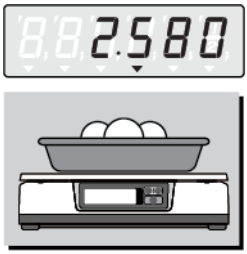
```
        PDN
==================================
Net :  2.580 kg
Tare  : 0 kg
Gross : 2.580 kg
```

6-3. Stable Send mode (S-Snd)

1)Mode Setting

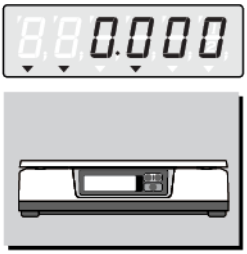
- This Print Mode is ‘Stable Mode’. Please refer to the page 10.

2)Print Operation



①Place a commodity on the platter, then the display will show the weight of the commodity.

② If weight is stable state, weight is send a printer.
You will see ▼ on display and then you listen to the buzzer sound one time.



③ Remove container and commodity, then You can print another commodity weight.

3)Print Out

```
        PDN
----------------------------------
Net :  2.580 kg
Tare  : 0 kg
Gross : 2.580 kg
```

□ CAS DLP Protocol

Variable	Descriptions	Data Length
V00	Net(Net weight)	7 byte
V01	Tare (Tare weight)	7 byte
V02	Gross(Gross weight)	7 byte
V03	Unit	2 byte

7. How to Use BLE (Option)

- If you select “bLE”, you cannot use RS232 ECR and printer protocol.

7-1. BLE Mode

1)Mode Setting

- This Mode is ‘BLE Mode’. Please refer to the page 10.
- In BLE mode, Bluetooth communication is possible.

ERROR MESSAGE

Error Message on Display	Description	Solution
"Err 0"	The "Err 0" occurs when scale is not stable.	Remove unstable facts.
"Err 1"	The "Err 1" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
"Err 3"	The "Err 3" is an overload error.	Please remove the weight.

SPECIFICATIONS

MODEL	PDN (Checkout Scale)						
Capacity / e	***Dual Interval*** Max 3/6kg e=1/2g	***Single*** Max 6kg e=1g	***Single*** Max 12kg e=2g	***Dual Interval*** Max 6/15kg e=2/5g	***Single*** Max 30kg e=5g	***Dual Interval*** Max 15/30kg e=5/10g	***Dual Interval*** Max 15/32kg e=5/10g
Internal Resolution	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000
External Resolution	1/3,000	1/6,000	1/6,000	1/3,000	1/6,000	1/3,000	1/3,000 1/3,200
MAX Tare	-2.999kg	-5.999kg	-11.998kg	-5.998kg	-29.995kg	-14.995kg	-14.995kg
Display	94 x 28 [mm] / 3.7 " x 1.1 " 6 digit LED						
Remote Display	94 x 28 [mm] / 3.7 " x 1.1 " 6 digit LED						
Symbols	STABLE, ZERO, TARE, kg						
Keys	ZERO, TARE, Function						
Functions	Weighing, Unit Conversion, ECR Protocol, Printer Protocol, Bluetooth Communication						
Dimensions	384(W) x 308.4(D) x 81.8(H)[mm]						
Platter size	380(W) x 280(D)[mm]						
Weight	5.6 kg						
Power	USB 5V or USB Adaptor (5V, 1000mA / Option)						
Operating Temperature	-10°C ~ +40°C / 14°F ~ 104°F						
Option	DEP-50, DLP-50 Printer (RS232-C Only) BLE Module						

※ Notice: Specifications are subject to change for improvement without notice.

MEMO

MEMO

MEMO

http://www.globalcas.com

Simple Weighing Scale

PDN

Owner's Manual

Series

9007-PDN-0033-1 2020.09

CAS BLDG., 1315, YANGJAE-DAERO,
GANGDONG-GU, SEOUL, KOREA

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FAX_ 82 2 475 4668

Specifications are subject to change without notice improvement.