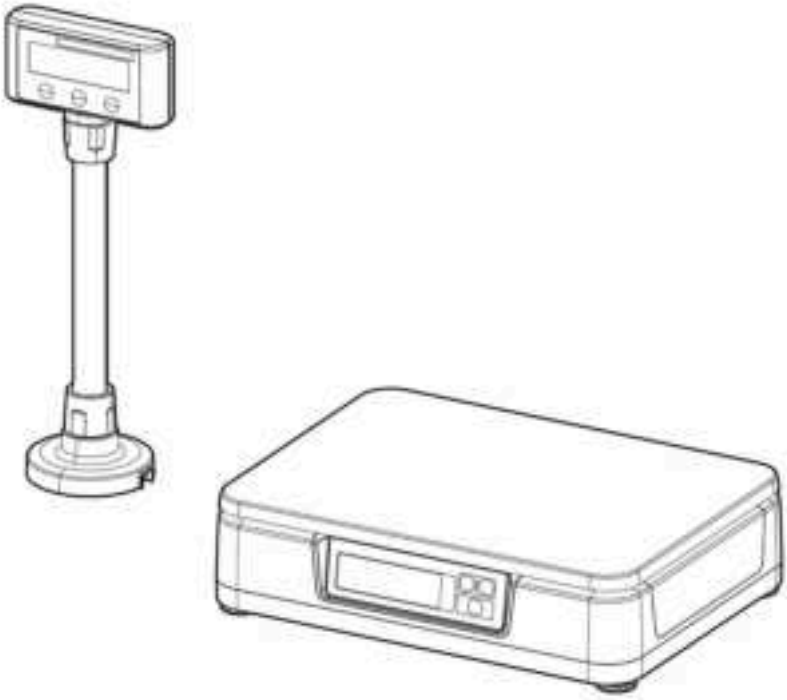
RETAIL WEIGHING SOLUTION™

POS Interface Scale

Owner's Manual

PDN Series



CAS

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PRECAUTIONS

Please be aware of the following precautions:

Do not disassemble the scale. If the scale is damaged or not operating properly, please contact your CAS authorized dealer for repair.

Do not overload the scale beyond the maximum capacity.

The scale must be grounded to reduce any potential shock and damage.

Do not pull the plug by its cord when unplugging.

Do not place or use the scale near flammable or corrosive gas.

To reduce electric shock and/or damage the scale, do not spill water or operate it in humid conditions.

Avoid placing the scale near a heat source or in direct sunlight.

If using the USB cable with an AC adapter for power, make sure the AC adapter is plugged firmly into the outlet to prevent electric shock.

Use the proper AC adapter.

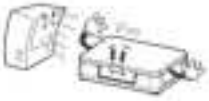
PRECAUTIONS

Attention: Plug your scale into a stable power outlet
For maximum performance, power up the scale thirty minutes before usage.

For consistent, accurate readings, your scale should be periodically checked by an authorized CAS Dealer.

Avoid sudden shocks to the scale.

Pick the scale up from the bottom of the base.



Keep the scale away from other electromagnetic generating devices. This may interfere with accurate readings.

Place the scale on a firm, stable platform and in a consistent temperature environment while in use.

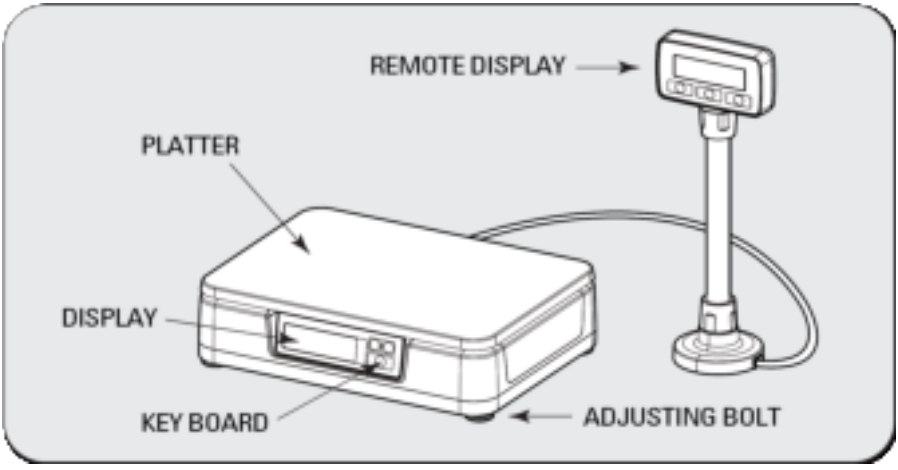
Level the scale by adjusting the feet and using the bubble indicator

If the scale is supplied with a rechargeable battery, remove it when not in use for long periods of time.

PREFACE

Thank you for purchasing CAS PDN POS Interface Scale.
The PDN Series has been designed with CAS reliability under rigid quality control so that you may enjoy years of outstanding performance. This manual will help you with the proper operation and care of the PDN. Please keep this manual for future reference.

NAMES AND FUNCTIONS



INSTALLATION

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

■ How to adjust and move the 'DISPLAY'

1) Adjusting the display angle

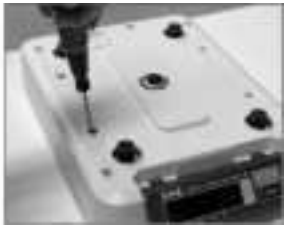
① Detach the display.

② Adjust the angle if necessary.

2) How to move the display

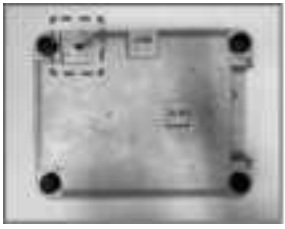
① Move the display & connect the wire connector.

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 '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.

DISPLAY & KEYBOARD

■ **PDN (MAIN)**

■ **PDN (REMOTE)**

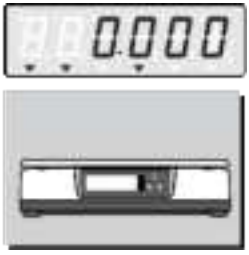
■ **KEY FUNCTIONS**

KEYS	FUNCTIONS
ZERO	Used to set the zero point and as an ENTER key in Setup Mode
TARE	Used to input or cancel the weight of tare and as an ESC key in Setup Mode.
UNIT	Unit Switching key

- Turn on the display by pressing the power switch. 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, the 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 will show the stable sign (▼).
- You may need to zero the scale ("0.000") by pressing the ZERO key unless the display already indicates "0.000".

1. Simple Weighing Mode

① Place a commodity on the platter.



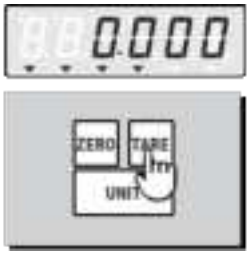
② Remove the commodity from the platter.

2. Weighing with Tare

● TARE means the weight of a container being used for a commodity.

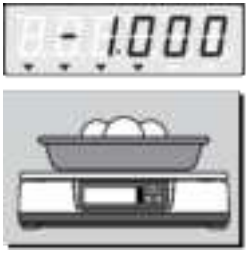
● TARE key function subtracts the weight of the container from the full gross weight.

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 the ZERO key, you can save the current setting and go to the next mode.

Default communication is USB.

3-2. Set up Mode Table

No	Category	MENU	SUB MENU	DESCRIPTIONS
1	USB ECR Type	*“ typ xx”*		Use USB port select ECR type 0~14, 20
2	RS232 Communication Mode	*“r ECr”* (RS232 ECR)	“.typ xx”	Use RS232 port select ECR type 0~15
		“bLE” (Bluetooth Protocol)		Wireless Bluetooth Communications

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

4. How to Use the ECR Protocols

4-1. ECR Port

1) Mode Setting

- If you select USB ECR, you will perform ECR communication through the USB port.
- If you select RS232 ECR, you will perform ECR communication through the RS232 port.
- 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. Protocol selections are shown on the next page.

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, SAMSUNG 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 Systems
10	Some P.O.S Systems
12	Most P.O.S Systems
13	Used in SOUTH AFRICA
14	Used in SOUTH AFRICA, Stream Data
15	Used in SOUTH AFRICA, Stream Data

5. How to Use BLE (Option)

5-1. BLE Mode

1) Mode Setting

- This Mode is 'BLE Mode'. Please refer to page 13.
- In BLE mode, the PDN can communicate with your POS terminal via Bluetooth (only for PDN units with the optional Bluetooth module)

ERROR MESSAGE

Error Message on Display	Description	Solution
"Err 0"	"Err 0" occurs when scale is not stable.	Weigh the commodity in a stable environment.
"Err 1"	"Err 1" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
"Err 3"	"Err 3" is an overload error.	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, 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	BLE Module, Remote Pole Display						

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

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