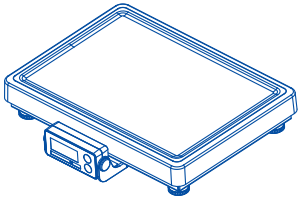
WE WEIGH THE WORLD

INDUSTRIAL WEIGHING SOLUTION™

POS PLATFORM

OWNER'S MANUAL

PDC



CAS

CONTENTS

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.

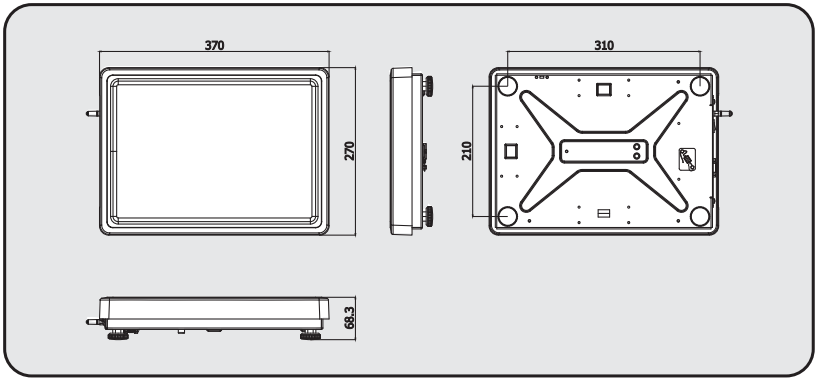
Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.

PREFACE

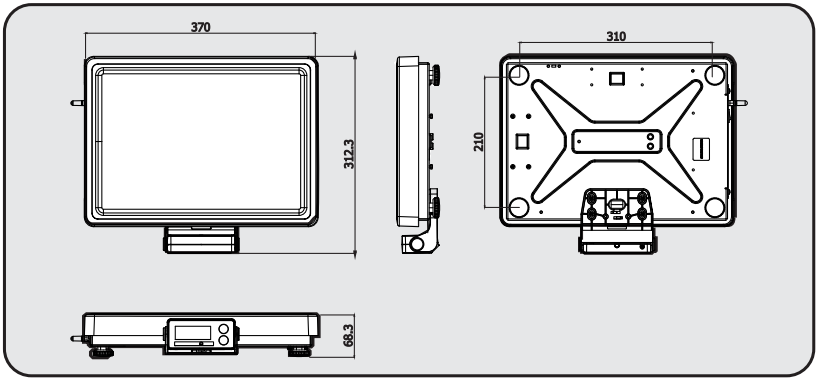
Thank you for purchasing CAS PDC series.
These series have been designed with CAS reliability, under rigid quality control and with outstanding performance. Your special departments can enjoy these high quality reliable CAS products.
We believe that your needs will be satisfied and you will have proper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

◆ Dimension

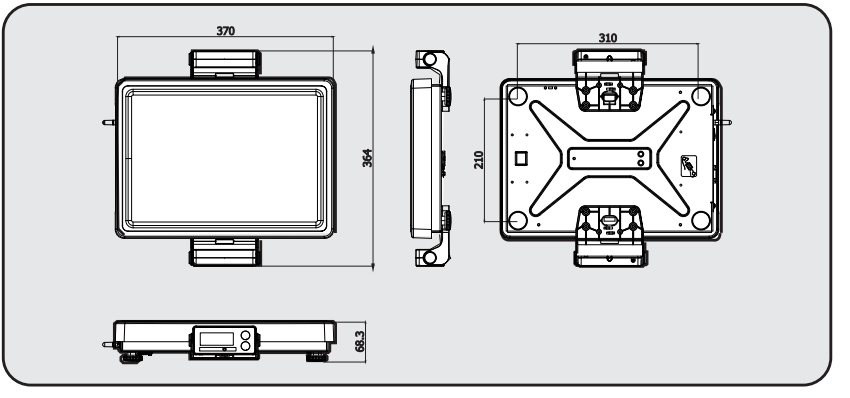
- PDC



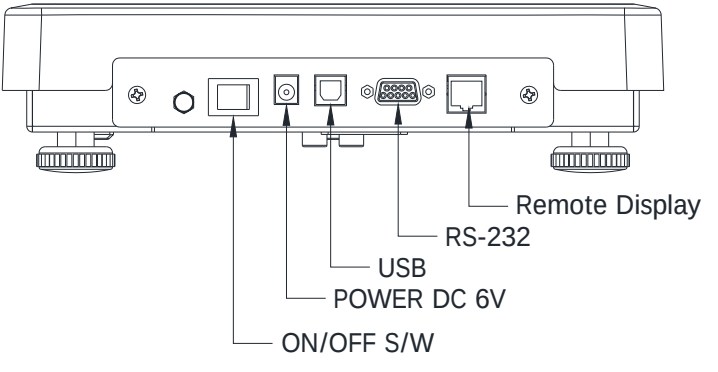
- PDC-S



- PDC- D


370
364
310
210
68.3

◆ I/O PORT


Remote Display
RS-232
USB
POWER DC 6V
ON/OFF S/W

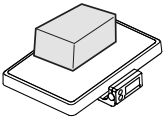
◆ DISPLAY & KEYBOARD

KEYS	FUNCTIONS
0	Used to set the zero point.
T	Used to input or cancel the weight of tare.

OPERATIONS

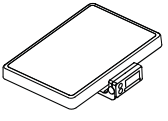
- Turn on the ON/OFF switch. Then, the display will show all the segments and count up "9" to "0".
- You may need to make it "0.000" by pressing 0 key unless the display indicate "0.000" under the empty platter.

1. Simple Weighing Mode



0.650 kg

① Place a commodity on the platter.

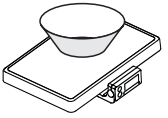


0.000 kg

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.

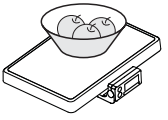


0.195 kg

① Place a container on the platter.

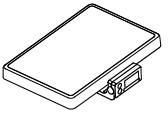
0.000 kg

② Press the T key.



0.650 kg

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



- 0.195 kg

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

0.000 kg

⑤ Press the T key, then display will show the "0.000".

1. How to Set Backlight

This function is helpful to save battery, which is not in use.
The following is the setting procedure of Backlight.

① Make sure that power is OFF.

While pressing the ·0· key, turn on the scale.
The display shows “U – Set”
(When you release the key, it will show you the current settings)

② You can change by pressing the ·0· key.

③ Press the ·T· key to save the setting. Then, the display will show all the segments and count up "9" to "0".

TABLE 1.

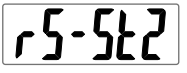
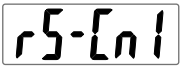
bL-oF	Do not use a back-light
bL-At	Use back-light when you put on the weight
bL-on	Use back-light always

2. How to Set RS-232

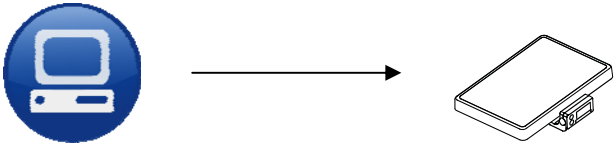
The following is the setting procedure of RS-232.

① Make sure that power is OFF. While pressing the ·T· key, turn on the scale.

TABLE 2.

	Stable Mode 1(for Printing) (Transfer data whenever the weight is zero)
	Stable Mode 2(for Printing) (Transfer data whenever the weight is stable)
	Continue Mode(for Printing) (Continuously transfer data)
	Command Mode (Command transfer Mode : CAS 10 byte)
	Command Mode (Command transfer Mode : CAS 22 byte)
	Continue Mode 1 (Continuously transfer data starting with command 0x0A and 0x0D)
	Continue Mode 2 (Continuously transfer data starting with command0x0A and 0x0D including decimal point)
	Stable Mode 3 (Continuously transfer data starting with command 0A, 0D whenever weight is stable)
	“P” Command Mode (Command transfer mode starting with command “P”)
	“$” Command Mode (Command transfer mode starting with command “$”)

3. PC to Scale Communication

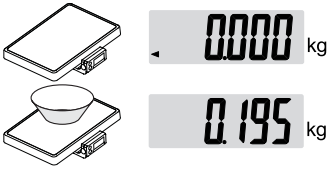


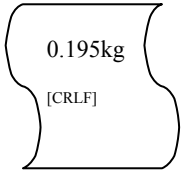
PC Command	PDC Scale
“Z”	Used to set the zero point.
“T”	Used to input or cancel the weight of tare

***Alphabetic capital use**

3-1. RS-ST1 Protocol

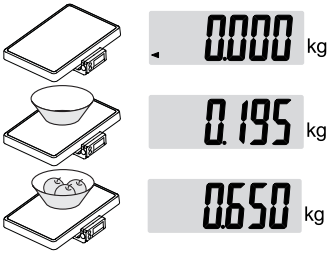
(First, after the weight is Zero and then when the weight value is displayed, the data is transferred.)

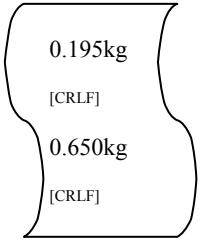




3-2. RS-ST2 Protocol

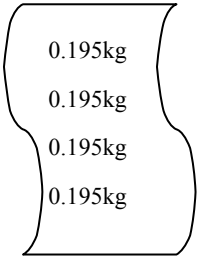
(Transfer data whenever the weight is stable)



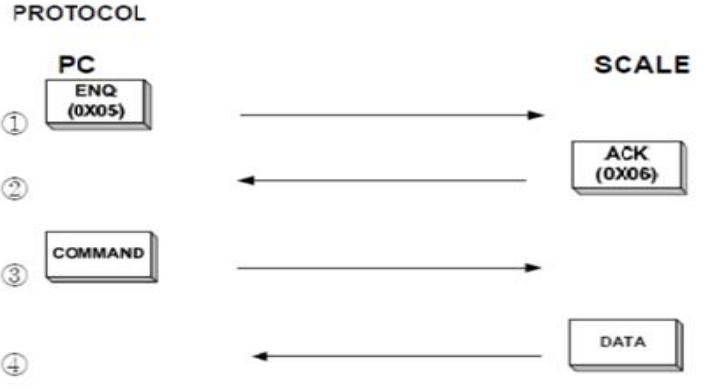


3-3. RS-CO Protocol

(Continuously transfer data)



3-4. CAS-10 Protocol (Command Mode)



SOH	STX	STA	SIGN	W6	W5	W4	W3	W2	W1	W0	UN1	UN0	BCC	ETX	EOT

BCC = Exclusive OR Sum

Start Command : SOH = 01h , STX = 02h
DATA : STA = Stable – 53h , Unstable – 55h
SIGN = 20h (+) , 2Dh (-)
End Command : ETX = 03h , EOT = 04h

3-5. CAS-22 Protocol (Command Mode)

US (Unstable) GS (Gross weight) Device ID Lamp Status byte
Empty Unit (kg/t)
ST (Stable) NT (Net weight)
OL (Overload)

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

3-6. RS-CN1 Protocol(Continue Transmission)

0A	0D	W5	W4	W3	W2	W1	Sp	Sp	P5	P4	P3	P2	P1	Sp	Sp

T6	T5	T4	T3	T2	T1

Start Command : 0Ah ,0Dh

Space : Sp – 20h

Data : W5~W1 – Weight , P5 ~P1 – Unit Price , T6~T1 – Total Price

*Decimal Point Not Inclusion

3-7. RS-CN2 Protocol (Continue Transmission)

0A	0D	W5	W4	W3	W2	W1	W0	Sp	Sp	P5	P4	P3	P2	P1	P0

Sp	Sp	T6	T5	T4	T3	T2	T1	T0

Start Command : 0Ah ,0Dh

Space : Sp – 20h

Data : W5~W0 – Weight , P5 ~P0 – Unit Price , T6~T0 – Total Price

* Decimal Point Inclusion

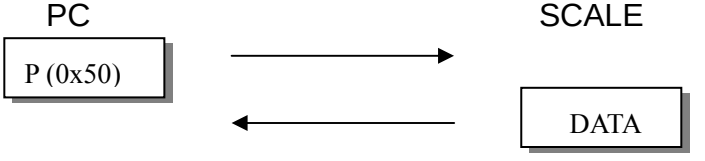
3-8. RS-CN3 Protocol (Stable Continue Transmission)

0A	0D	W5	W4	W3	W2	W1	W0

Start Command : 0Ah ,0Dh

Data : W5~W1 – Weight

3-9. RS-CN4 Protocol (Command Mode)

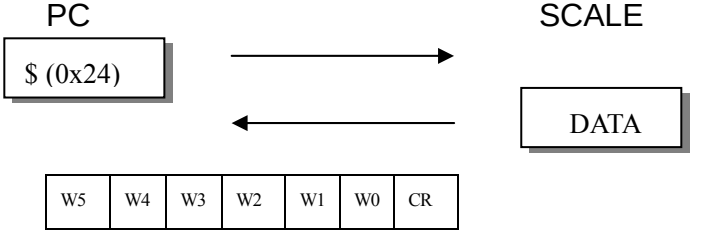


STX	Sp	Sp	W5	W4	W3	W2	W1	W0

Start Command : STX = 02h

Data : W5~W0 – Weight (Decimal Point Inclusion)

3-10. RS-CN5 Protocol (Command Mode)

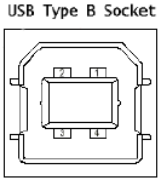


W5	W4	W3	W2	W1	W0	CR

Data : W5~W0 – Weight (Decimal Point Inclusion)

End Command : CR – 0Dh

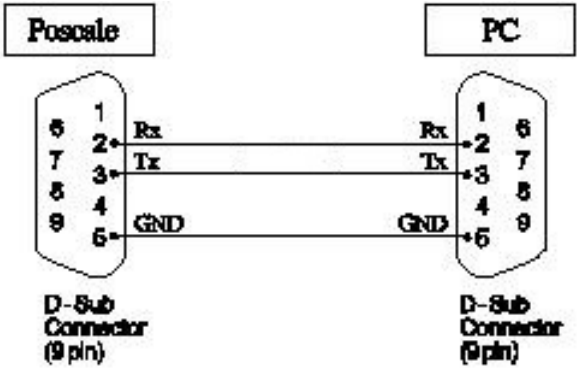
USB Interface



1: Vbus (5V)
2: D-
3: D+
4: Ground

RS-232 Interface

Baud Rate : 9600 bps , None Parity , 1 Stop Bit

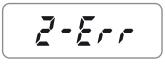


SPECIFICATIONS

MODEL	PDC		PDC-S		PDC-D	
Capacity	Dual Interval	Single	Dual Interval	Single	Dual Interval	Single
	Max 3 / 6 kg	Max 6 kg	Max 6 / 15 kg	Max 15 kg	Max 15 / 30 kg	Max 30 kg
e	e= 1 / 2 g	e=2 g e=1 g e=0.5 g e=0.2 g	e= 2 / 5 g	e=5 g e=2 g e=1 g e=0.5 g	e= 5 / 10 g	e=10 g e=5 g e=2 g e=1 g
External Resolution	1/3000	1/3000 ~ 1/30000	1/3000	1/3000 ~ 1/30000	1/3000	1/3000 ~ 1/30000
MAX Tare	-2.999kg -5.998kg -5.998kg -14.995kg -14.995kg -29.990kg					
Display	None		1ea * 57.5 x 24.8 [mm] / 6 digit LCD		2ea * 57.5 x 24.8 [mm] / 6 digit LCD	
Symbols	ZERO, TARE					
Keys	None		ZERO, TARE			
Dimensions	370 (W) x 270 (D) x 68.3(H)[mm] / 20 kg					
Platter size	370 (W) x 270 (D)[mm]					
Weight	5.1 kg					
Power	D.C 6 V 0.5 A Adapter , USB 5 V					
Operating Temperature	-10 °C ~ +40 °C / 14 °F ~ 104 °F					
Interface	USB B type, RS-232C					
Option	BLUETOOTH 4.0, RS-232 CABLE, USB CABLE					

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

ERROR MESSAGE

Error Message on Display	Description	Solution
	The "Z-Err" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
	The "Err" message will be shown when HIGH and LOW limits are set as the same or above maximum capacity	Please reset the weight again.
	The "Err 3" is an overload error.	Please remove the weight.

MEMO

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

TEL_ 82 2 2225 3500
FAX_ 82 2 475 4668
www.globalcas.com

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