



BS-320P

PRINTER

1. Basic Features

Item	Features
Printing Type	DOT MATRIX
Speed	46 CPS
Column	30 COLUMNS
FONT	5 X 7 DOT MATRIX
Character	English, Numeric and special character
Printing Color	Black
INTERFACE	RS-232C SERIAL
DIMENSION	131(W) X 95(D) X 192(H)
Power Supply	AC FREE VOLTAGE (AC100~240V)
Feature	<ul style="list-style-type: none">- Time, Date, CODE Set and Weight Display- Easy to use the key operating- Various DATA processing
Application	INDICATOR, BALANCE ,SCALE, FA Instrument, Truck scale and Other devices

*. Setup Menu Map

CLR KEY TO ESC
Item KEY 0→5

=. Receiving mode selection

0 ----- 1 ON STB
|----- 2 CONT

=. Printing mode selection

1----- 0 MAN // Manual Mode
|----- 1 AUTO // Automatic mode
|----- 2 INTVL // Time interval mode (By User's requirement)
|----- 3 RXD // Teminal mode

=. Baud rate set

2----- 0 1200 BPS
|----- 1 2400 BPS
|----- 2 4800 BPS
|----- 3 9600 BPS

=. LINE FEED SET

3----- 0 LINE FEED
|----- 9 LINE FEED

=. Scale model selection (VER 7.8)

4----- Receiving mode 1 ON STB

BONGSHIN	CAS DB SERIES	CAS AD,AC	ACOM PC_100W
DESCOM NW-II	OHAUS SCOUT	OHAUS	OHAUS VOYAGER
ONLY Kg	ONLY g	CAS MW-II	ACOM JW-1
SETRA EL4100	METTLER AB,BL,PE	OHAUS AD_2140	OHAUS PRECISION
HANSUNG HS,JD	OHAUS RANGER CNT	AND MODEL ALL	OHAUS AR_2130
CAS_5010 AUTO	PRECISA XT	SHIMADZU MODEL	INNOTEM IB
SARTORIUS	SARTORIUS MSP		

|----- Receiving mode 2 CONT

PRECISA 480S	PRECISA XB	AND EK-120A	OH TP-200, GT
SENSYS SC20R	METTLER PM, PE		

=. SELECT CODE TYPE

5----- 1 NUM Numeric code
|----- 2 ENG English code

* How to enter into the Setup Menu

=. Setup title Menu

Caution : If setup data is changed, it may be caused the problem between printer and scale.

Please contact the manufacturer for setup changing.

Press **CLR(*)key** when the power is off. Then, power is ON simultaneously.

The following message is displayed after 'beep' sound.

CLR KEY TO ESC Item KEY 0 → 5

* Escape from Setup Menu

-. Press **CLR(*)key** in Setup title menu.

=. Checking item before connect the scale and printer

- . Check first the model number of scale or Indicator.
- . Check the baud rate.
- . Check the connection cable between the scale and printer (Refer to Cable Menu)

*. 0 – Receiving Mode Set

Press " 0 " key in Setup title Menu.

COMMUNICATION 1 On Stb 2 Cont

1 On Stb =. In case of the data output of scale is continuous or stable by use of scaleprint key or command output, <Remark> Can be used in the general scale model
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2 Cont =. in case of the data output of scale is continue or stream mode
<Remark> Can be used in AND, Fine, CAS CI5010 (Continuous mode)

After selection between 1 or 2 , the printer will return to initial setup menu.

*. 1 – Printer Mode Set (This can be used when the receiving mode is set by 2 Cont.)

Press " 1 " key in Setup title Menu.

0 Man 1 Aut 2 Intvl Mode Key: 0→3

- 0 Man =. Manual Mode
The printer is printed when "Printer(1)" key is pressed only.
- 1 Aut =. Auto Mode
The printer is printed automatically when the scale is in stable.
- 2 Intvl =. Interval Mode (By User's requirement)
The printer is printed by the setting interval time.
- 3 RXD =. Terminal Mode
This is used when all of data in Scale or Equipment is printed.

*.2 – Baud Rate Set

Press " 2 " key in Setup title Menu.

0→3 1200→9600
Baud Key: 0→3

0 → 1200 bps // 8 Data Bits // None Parity // 1 Stop bit

1 → 2400 bps // 8 Data Bits // None Parity // 1 Stop bit

2 → 4800 bps // 8 Data Bits // None Parity // 1 Stop bit

3 → 9600 bps // 8 Data Bits // None Parity // 1 Stop bit

Remarks: The Baud rate must have a same BPS Between Master and Slave.

*. 3 – Line Feed Set

Press " 3 " key in Setup title Menu.

LINE FEED SET
FEED KEY: 0 → 9

The line is feed from 0 to 9.

The initial setting is to " 0 " before shipment.

*. 4 – Scale Selection

Press " 4 " key in Setup title Menu.

BONGSHIN
NEXT → ENT Key

The printer will display a present selection.

Press "ENT" key if you want to change the model.

Press "CLR" for your model selection.

The model can be changed. Then the printer will return to Setup Menu.

참고사항: The selection of scale can be different from the receiving mode selection.

The scale selection is limited by the inside program ROM version.

-. In case of receiving mode 1 On Stb (Ver 7.8)

BONGSHIN	CAS DB SERIES	CAS AD,AC	ACOM PC_100W
DESCOM NW-11	OHAUS SCOUT	OHAUS	OHAUS VOYAGER
ONLY Kg	ONLY g	CAS MW-11	ACOM JW-1
SETRA EL4100	METTLER AB ,BL,PE	OHAUS AD_2140	OHAUS PRECISION
HANSUNG HS,JD	OHAUS RANGER CNT	AND MODEL ALL	OHAUS AR_2130
CAS_5010 AUTO	PRECISA XT	SHIMADZU MODEL	INNOTEM IB
SARTORIUS	SARTORIUS M5P		

-. In case of receiving mode 2 Cont

PRECISA 480S	PRECISA XB	AND EK-120A	OH TP-200, GT
SENSYS SC20R	METTLER PM, PE		

=. Notice : Above scale selection can be changed by user's requirement.

***. 5 - SELECT CODE TYPE SET**

Press " 5 " key in Setup title Menu.

<p>SELECT CODE TYPE 1-->NUM 2-->ENG</p>
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<p>1 -> NUM / NUMBER CODE TYPE</p>

2번 -> ENG / ENGLISH CODE TYPE

The initial setting is to " 1 " before shipment.

- . How to confirm a present printing setup data

- . Press " 0 " key when the power is off. Then, power is ON simultaneously.

- . Contents of Data : Rom version, Baud rate, Scale mode

- KEY BOARD -

1) Arrangement

1 PRINT	2 DATE	3 TIME	4 CODE	5 SUB	* CLR
6 GRAND	7 Date_Flag	8 Auto/Manual	9 FEED	0 INTERVAL	# ENTER

2) Key function

- . 0~9 : To be input a numeric data like as Date, Time, Code, interval
- . PRINT : To be used in manual printing
- . DATE : To be set or revised the date
- . TIME : To be set or revised the time
- . CODE : To be set or revised the code
- . SUB : To be used Sub-total printing
- . GRAND : To be used Grand-total printing
- . Date_Flag: Optional use for Date & time when the printing
- . Auto/Manual: To be select the auto/manual in On Stb mode
- . FEED : To be move the printing line or skip (9 key)
- . ENTER : To be set the date & time
- . CLEAR : To be clear the numeric data
- . ENTER : To be memorized each setting & To be moved the other setting

<Remarks> The code can be input Max. 6 numeric.

1. DATE Setting

- 1) Press " 2 " key.

DATE	2005/09/25
PRESS	YY/MM/DD

- 2) The date can be input YY/MM/DD by numeric key.

* Example : In case of Dec. 25, 2005

0	5	1	2	2	5
---	---	---	---	---	---

- 3) If you want to revise during setting, press " CLR ". Then try again.

2. TIME Setting (24 Hours)

- 1) Press " TIME " key (3).

TIME	14:35
SET TIME / ENTER	

- 2) The time can be input TT/MM by numeric key.

* Example : In case of PM 5 : 45

1	7	4	5
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- 3) If you want to revise during setting, press " CLR ". Then try again

3. CODE Setting

- 1) The code can be input Max. 8 digit numeric.

[AUTO]	16:15
CODE = 12345678	

- . When 8 digits are input, the printer will return to setting mode automatically.
- . If you input the code in 7 digit, press "ENTER" key finally.

4. HOW TO USE MANUAL MODE

- 1) The printer can print when the "PRINT" key is pressed only.

- 2) SUB TOTAL PRINT : If " SUB TOTAL " key is pressed, the time/Weighing Count/Sub-Total are printed.

- 3) GRAND-TOTAL : If " GRAND TOTAL " key is pressed, following data will be initialized.
----> Time/Weighing Count/Total Weight/Maximum/Minimum/Average

- 4) Revise CODE : If " CODE " key is pressed, the code can be revised.

5. HOW TO USE AUTO MODE

- 1) The printer can print automatically when the scale is in stable.
- 2) SUB TOTAL PRINT : If " SUB TOTAL " key is pressed, the time/Weighing Count/Sub-Total are printed.
- 3) GRAND-TOTAL : If " GRAND TOTAL " key is pressed, following data will be initialized.
----> Time/Weighing Count/Total Weight/Maximum/Minimum/Average
- 4) Revise CODE : If " CODE " key is pressed, the code can be revised.

6. HOW TO USE 'CLR' KEY

- To be removed the final weighing data after printing.
This value does not be included in accumulation or average data.

7. PRINTING SAMPLE

1) HEADER (PRINT MODE/ TIME / CODE)

♥ MANUAL MODE

♥ AUTO MODE

♥ TIME INTERVAL MODE

[MANUAL MODEL] 2005/10/01 13:33:27 CODE : 123456	[AUTO MODEL] 2005/10/01 13:33:27 CODE : 123	[INTERVAL MODEL] 2005/10/01 13:33:27 INTERVAL : 02:30 CODE : 4567
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2) WEIGHT DATA

NO. 001	13 : 35 : 30
WT	123.4g
NO. 002	13 : 36 : 40
WT	1230.5g

3) SUB-TOTAL

SUB TOTEL	
2005/10/01	15:20:13
NUMBERS : 5	
CODE	: 123456
WT	5678.7g

4) GRAND TOTAL

GRAND TOTAL

2005/10/01 16 : 31 : 12

NUMBERS 12

CODE 123456

WT 25678.9g

MAX 1230.5g

MIN 23.7g

AVR 732.2g

DEV 4.3000g

RNG 1206.8g

※ NUMBERS : Weighing Count

CODE : Setting Code

WT : WEIGHT

MAX : MAXIMUM DATA

MIN : MINIMUM DATA

AVR : AVERAGE DATA

DEV : STANDARD DEVIATION

RNG : RANGE OF DATA

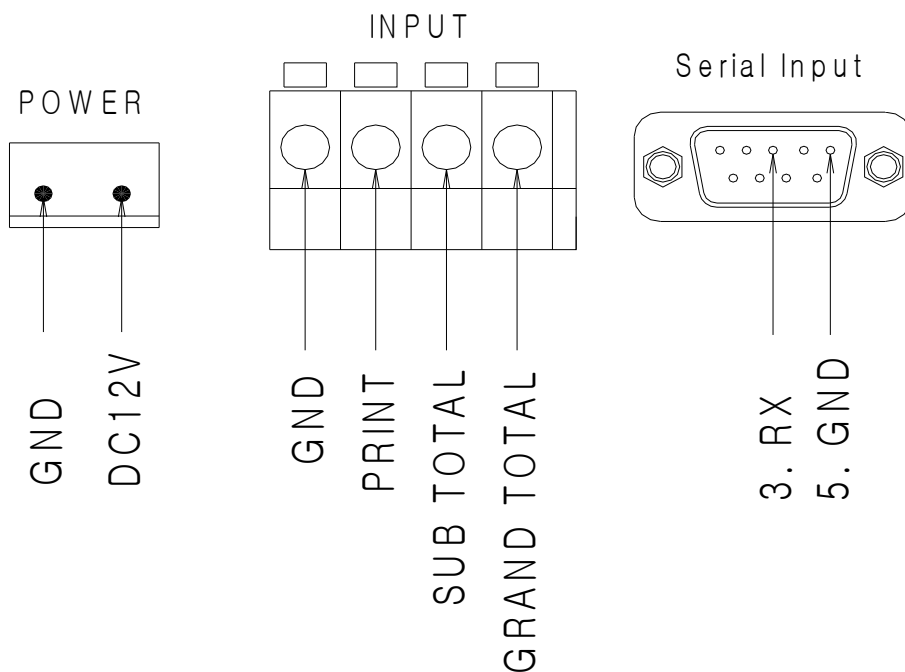
*. BS-320PS CONNECTOR

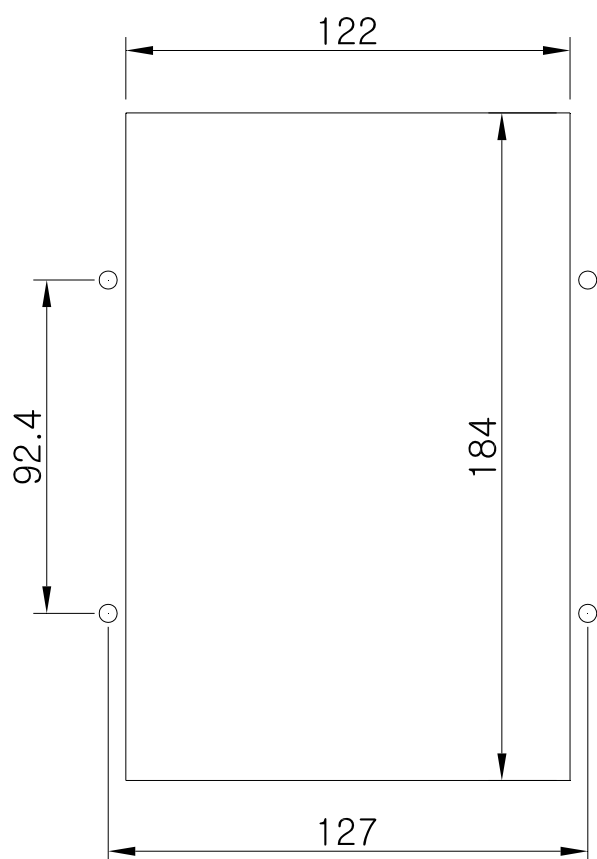
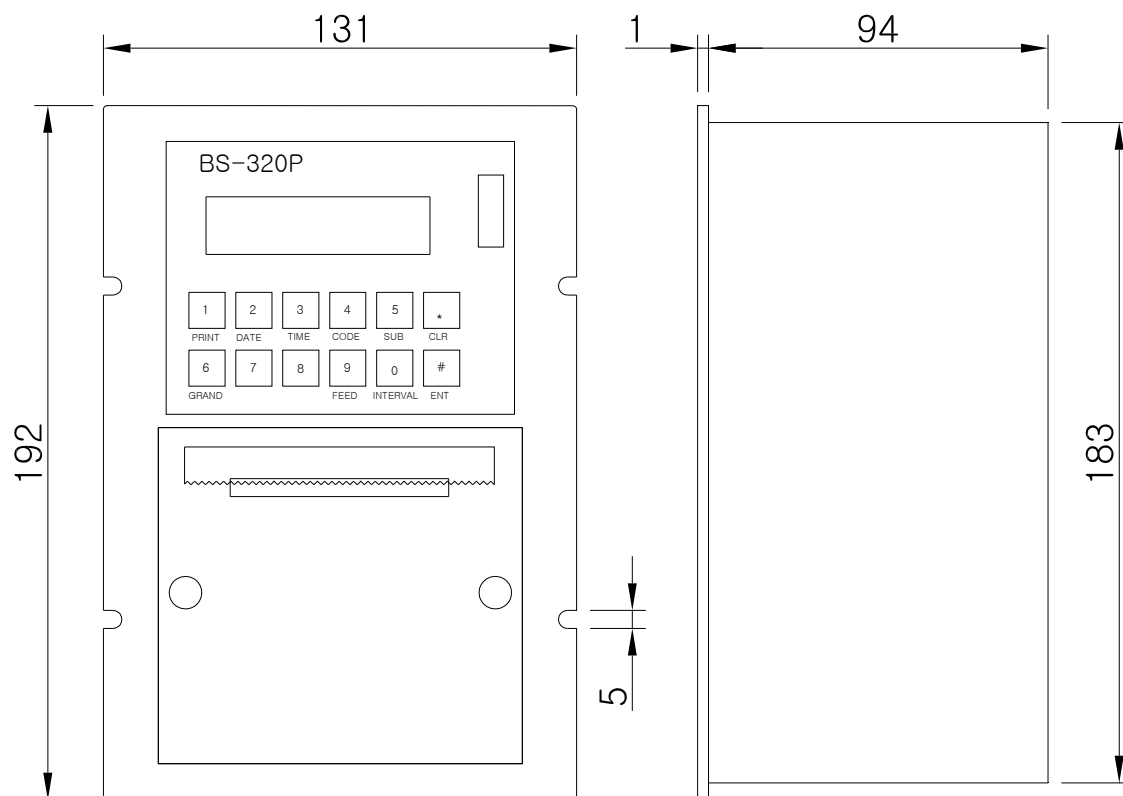
-. BS-320PS PRINTER RS-232C (9P D-SUB MALE / MALE)

Pin No.	Signal	Function
2	TXD	Data Receiving
3	RXD	Data transmit
5	GND	SIGNAL GROUND

(Remark) Cable Pin arrangement

BS-320PS	INDICATOR
9Pin/ FEMALE	9Pin/ MALE
2(Txd)	-----
3(RXD)	----- 3(TXD)
5(GND)	----- 1(GND)





PANEL Cutting Size