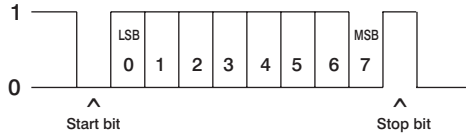
RS232C Specifications & connections

A. Specification :

Baud rate : 9600
Parity : none
Data bit : 8
Stop bit : 1

B. Data Stream :



C. Connections : DB-09 Male

pin no.	2	5	others
	TXD	GND	NC

D. RS232C Format :

a.

```
WT : XXXXX  LB
APW : XXXXX  LB
QTY : XXXXXX PCS
```

b.

```
WT : XXXXX  Kg
APW : XXXXX  g
QTY : XXXXXX PCS
```

E. RS232 Operation

1.Please make sure the print functon has been started as P2 1

2.Pressing M+ key after you get the total pieces of first item.
At the moment you will be requested to enter a six digits ID as Id

3.Pressing M+ key again after you entering ID the total pieces will be accumulated and print out at the same time.

4.Pressing RM then →0← key to print out the total pieces of all items and clear memory.

Error message

Symptom	Cause	Solution
[-----]	***Over load :***	
	* Weighing range exceed	> Unload scale or reduce preload
[_____]	***Under load :***	
	* Weighing pan not in place	> Ensure the weighing pan is correctly installed and surrounding parts are not touching
	* Weighing range zero below	> Set scale to zero
	* Contact between weighing	> Apply pre-load
[-OL-]	***Zeroing not possible :***	
	* Zeroing outside the zero setting range	> Ensure that zeroing is performed in the admissible range

AC-Series

AHC-1.5/AHC-3/AHC-6/AHC-15/AHC-30
AC-1.5/AC-3/AC-7.5/AC-15/AC-30

Operation Manual

You have purchased a quality precision weighing instrument that requires handling with care.
Read entire contents of this ***Operation Manual*** prior to operating your new instrument.

Disclaimer Notice

Calibrate your instrument using reference weights of the appropriate tolerance (class).
An instrument can be no more accurate than the standard to which it has been compared.
For assistance in the selection of reference weights, please contact the factory.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Introduction

Thank you for choosing one of our instruments. Your instrument is designed and manufactured to the most rigorous standards in order to give you years of service.
First, check the contents of the shipping carton. You should find the following :

*** Manual * Instrument * AC Adapter**

Next, follow the instructions for installing your instrument.

Now you are ready to begin using your instrument. To take advantage of its many features, carefully read your operating manual.
It contains step-by-step procedures, examples, and other vital information.

Warning: Use of this product in a manner not specified by the manufacturer may impair any safety protection provided by the equipment!

Programme

Press and hold any key while powering **ON**. The display will shows CAL
Press [3] key goes to **programme sequence**.
Press [x1] key for **sequences through the available parameters** and
Press [→T] key for **setting and goes to next step**. The programme sequence as follows:

A. Auto power off	P0	0	None
	P0	1	5 minutes after
	P0	2	10 minutes after
	P0	3	20 minutes after
	P0	4	30 minutes after
B. Backlit	P1	0	None
	P1	1	Active
	P1	2	Auto lighting while loading
C. RS232 out put	P2	0	None
	P2	1	Enable

Calibration

Display shows:

1. ***Please have the jumper Jp6 switch OFF before you start to calibrate weight.***
2. Press and hold any key while powering **ON**. — CAL
3. Press [4] key, and the ***QUANTITY display*** will shows ***Offset value to be 5000 ~ 30000***. — 2.2.2.2.2.
   If it's not in this range ***Jp1~ Jp4*** to be adjust.
4. Press [→0←] key to ***zero the Span value*** shown on the ***WEIGHT display.*** — 0
5. Put on the ***calibrating weight in lb***. ***(Span value to be 300,000 at full capacity)*** — 2.2.2.2.2.
6. Press calibrating number as the calibrating weight and then press [x1] key, the weight calibration to be done.
7. **After finish the weight calibration, make the *Jp6 switch ON*. Now you are ready to weigh.**

Operation

D. Counting Function

There are two setting method, one is ***PIECE COUNT*** setting and the other is ***PIECE WEIGHT*** setting.

1. PIECE COUNT setting

a. Count the desired amount sample pieces (10, 20, 50, 100, or 200 total pieces) and place on the pan. The total weight to be shown in WEIGHT display.

b. Set the numbers of sample by the numeric keys. The number to be shown in PIECE WEIGHT display with flickering.

c. Press the [ ] key, the PIECE WEIGHT display shows the averaged piece weight, and QUANTITY display shows the numbers of sample.

2. PIECE WEIGHT setting (In case of piece weight is already know)

a. Set the piece weight data by the numeric keys and decimal point key. The number to be shown in PIECE WEIGHT display with flickering.

b. Press the [ ] key, the ***piece weight setting*** to be done.

3. Piece weight alarm **Light sample** indicator will flickering when the averaged piece weight or set piece weight is not enough for accurate counting operation. Operator may use scale even this indicator is flickering, but counting error may occur.

E. Alarm functions

1. Alarm setting

This function is designed for packing purpose. **For example, if the operator wish to count 100 pieces for every package, he can set the upper limit as 100 pieces.**

a. Press the [ALARM] key — ch 0

b. Press the key [1] [0] [0] — ch 100

c. Press the [ALARM] key, to return normal counting function.

The indicator turns ON at **Alarm** .

After such setting, if total quantity reached 100 or over, scale will be sounds **bi-bi-bi- - - - -**

2. Alarm release

a. Press the [ALARM] key — ch 77

b. Press the key [C] and [ALARM]

The alarm indicator turns OFF.

Specifications

Model	AC-1.5	AC-3	AC-7.5	AC-15	AC-30	AHC-1.5	AHC-3	AHC-6	AHC-15	AHC-30
Range	1.5kg	3kg	7.5kg	15kg	30kg	1.5kg	3kg	6kg	15kg	30kg
Readability	0.1g	0.2g	0.5g	1g	2g	0.05g	0.1g	0.2g	0.5g	1g
Pan size	265 x 205 mm									
Dimensions	(L x W x H) 320 x 275 x 110 mm									
Net Weight	4 kg									
Power	9V/500mA, AC adapter included.									

Preparation

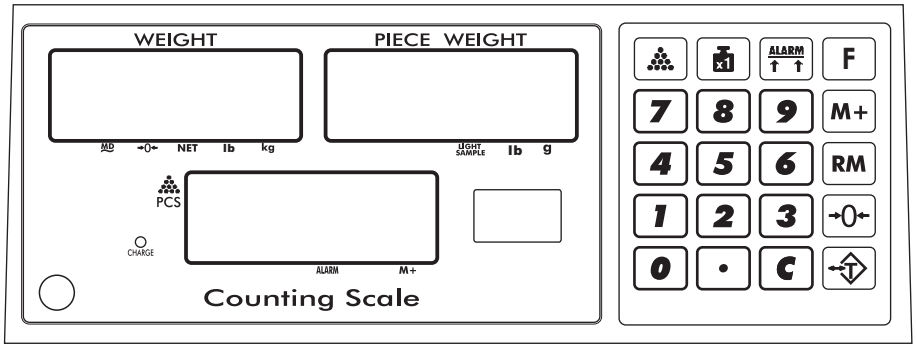
This product is intended for indoor use.

* Select a suitable work area.
* Work area should be relatively free from drafts and vibrations.
* Work surface should be level and rigid.
* Do not locate near magnetic materials or equipment/instruments which use magnets in their design.
* Avoid areas which have variations in room temperatures or have excessive room temperatures. Room temperatures above 40℃ or 0℃ could affect instrument operation and accuracy.

Installation

Remove instrument and accessories from the carton.
Save packing material for transportation purposes.

* If using the AC adapter, insert power cord into the receptacle located on the side panel of the instrument (behind On/Off switch). Firmly push in the plug.
* Allow the instrument to warm up for 30 minutes prior to use.
* Your instrument features a numeric display that continuously shows your weighing results.



Function keys

On/Off Switch — Turns instrument **On** or **Off**.

0 ~ **9** — Numeric keys. Used for setting numeric data for tare weight, sample number, sample weight, or limit number of checking.

→0← — Captures a new center of zero.
Cancel the memorized data in total mode.

→T← — Reduce gross weight on pan as tare weight.

• — Used for set the decimal position of the tare weight, sample weight.

C — Used for cancelling the numeric setting data or cancel the previous piece weight data.

Used for parts counting.

Used for setting the know piece weight data.

ALARM — Used for the alternation of changing normal counting and check operation.

M+ — The **M+** to be used when accumulating the sub-total data.

RM — Used for the alternation of changing normal counting and memory data recall.

F — Function key.

Operation

A. Getting Started

Turn the instrument on by pressing the power switch on.
The display will down count from 999999 . . . while the unit is being updated.
Allow the unit to warm-up for 30 minutes.

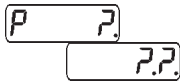
B. Taring (zeroing)

All models have taring (zeroing) capabilities up to their total weight capacity.
To weigh a sample in its container with the display showing the weight of the sample use the following ZERO (tare) procedure.
For reducing the tare weight from the scale, there are two methods, one is push button tare and the other is keyboard tare.

1. **Push button tare**
   - **a.** Place sample container on pan and then press the →T← key and then NET indicator turn on and the WEIGHT display shows zero.
   - **b.** Now place sample in its container.
   - **c.** When the scale is stable, the display shows the weight of the sample.
2. **Keyboard tare**
   - **a.** Set the know tare weight data to the scale using the numeric and decimal keys. Set data is displayed in the PIECE WEIGHT display with flickering.
   - **b.** Press →T← key.
   - **c.** Set tare weight displayed in the WEIGHT display is cleared to zero.
   - **d.** Clearing the previous tare value. Remove weight from the pan then press →T← key, so that NET indicator turn off and the WEIGHT display returns to zero.

C. Accumulation function

1. Press **M+** key can be accumulating the sub-total piece counts one time. The next accumulation must be return to zero and got new piece counts. The indicator turns ON at M+ .
2. Press **RM** key can be used for alternation of changing normal counting. and memory data recalling.



3. The →0← key can be used to delete all datas in **Grand-Total**. The indicator turns OFF.