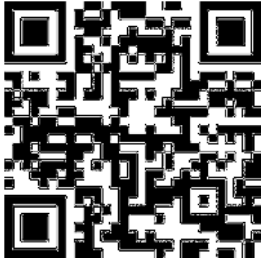


Weighing Indicators



GK-S INDICATOR

(P.N.30566 16940, Revision A2, July 2024)

software: V1.03 & above



Easy Reference:

| | |
|--|--|
| Model name of the indicator: | |
| Serial number of the unit: | |
| Software revision number (Displayed when power is first turned on): | |
| Date of Purchase: | |
| Name of the supplier and place: | |

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1. INTRODUCTION

Thank you for purchasing GK-S high-precision weighing indicator, which has rapid response, high sensitivity and good strength, and is an ideal choice for all kinds of industrial weighing and laboratory weighing.

Features :

- GK-S has powerful functions such as parts counting, check counting, percentage, check-weigh, accumulation, accumulation statistics and automatic range tracking.
- GK-S cumulative statistics function can store up to 100 groups of weighing data. And can count the total times of weighing, the total weight of all data, average value, maximum value, minimum value, and the difference between maximum and minimum value.
- GK-S adopts a 6-bit 40mm ultra-large font LCD screen, and various symbols, units and range tracking bars are also displayed on the display screen. Numbers are clearly visible in all kinds of bright light environments.
- GK-S has white, green, red, blue and amber high brightness backlights. In the check-weigh function mode, the user can quickly judge whether the weight is low, ok or high by the color of the backlight.
- GK-S has a rocker reset switch with a waterproof rubber protective cap at the rear.
- GK-S has a sealed keypad with color coded buttons, and the key operation is clear at a glance.
- GK-S is supplied with a DB9 male RS232 two-way communication interface and a built-in clock.
- GK-S has a strong ABS housing, which is suitable for various industrial environments.

2. SPECIFICATIONS

| INPUT SECTION | |
|----------------------------|---|
| Load Cells | Up to 4 , 350 ohm load cells Minimum 87 ohms, maximum 1120 ohms |
| Connection | 6 wires 2 excitation, 2 sense, 2 signal |
| Excitation | 5Vdc |
| Sensitivity | 0.06uv/d |
| Linearity | 0.01% FS |
| Zero Range | 0- 10mv |
| Signal range | 0-40mv |
| ADC Sensitivity | Approximately 0.01 μ v/ADC count |
| DIGITAL SECTION | |
| Maximum Range | Typically 1kg – 30000kg |
| Divisions | Up to 80,000 |
| Weigh units | kg / g / lb / oz / lb:oz |
| Stabilisation Time | 2 Seconds typical |
| Operating Temperature | -10°C - 40°C 14°F - 104°F |
| Power supply | DC 12V 800ma |
| Battery | Internal rechargeable battery (OPTIONAL) |
| Calibration | Automatic External |
| Display | 6 digits LCD digital displays with capacity tracker and symbols for units |
| Indicator Housing | ABS Plastic |
| Overall Dimensions (wxdxh) | 260 x 170 x 115mm 10.2" x 6.7" x 4.5" |
| Net Weight | 0.75kg |
| function | Weighing, parts counting, check counting, percentage, check weighing, accumulation, accumulation statistics |
| interface | DB9 male, RS-232 bi-directional interface English, French, Spanish and German selectable text. |

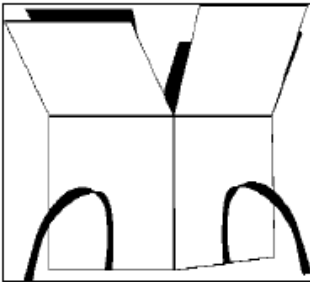
3. INSTALLATION

The GK-S indicator must be connected to a load cell platform and calibrated as necessary to match the platform and user requirements.

The users application and the technical specifications of the platform or load cell will determine the necessary configuration.

3.1 UNPACKING

Take the indicator out of the packing box slightly, The box contains all the parts used by the indicator.



- Power adaptor
- Wall bracket
- Two sets of expansion bolts and screws

3.2 LOCATING

| | |
|--|---|
| | <ul style="list-style-type: none">• The scales should not be placed in a location that will reduce the accuracy. |
| | <ul style="list-style-type: none">• Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.• Avoid unsuitable tables. The table or floor must be rigid and not vibrate. |
| | <ul style="list-style-type: none">• Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.• Do not place near vibrating machinery. |
| | <ul style="list-style-type: none">• Avoid high humidity that might cause condensation. Avoid direct contact with water. Do not spray or immerse the scales in water.• Avoid air movement such as from fans or opening doors. Do not place near open windows or air-conditioning vents. |
| | <ul style="list-style-type: none">• Keep the scales clean. Do not stack material on the scales when they are not in use. |

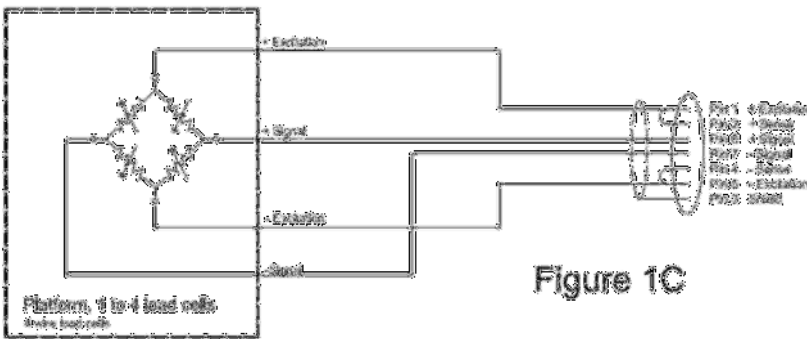
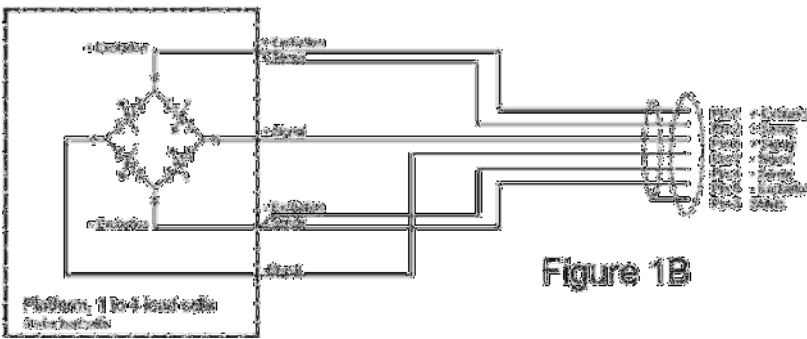
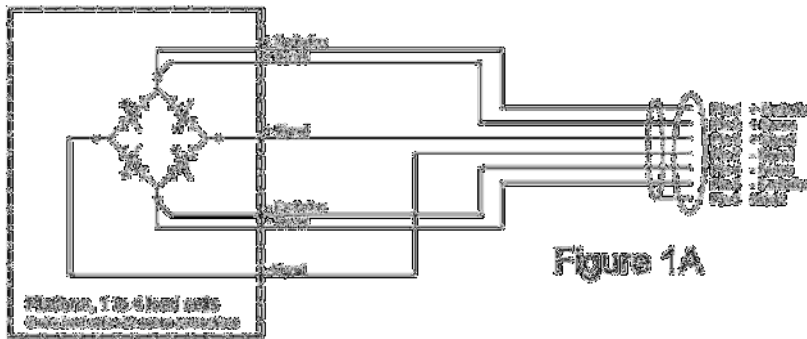
3.3 CONNECTION

This indicator must be connected to a load cell platform and calibrated as necessary to match the platform and user requirements.

The GK-S has a connector configured for a 6 wire load cell. Connect the load cells/platform to the indicator as shown below. The cable length should be as short as possible, using a large size wire to minimise errors due to resistance in the leads.

Figure 1A shows the connections to a 6-wire load cell. Figure 1B shows a preferred method to attach a 4-wire load cell, using a 6 conductor cable to go from the indicator to the platform or load cell where it connects to the 4 wires from the load cells. The Excitation and sense wires are connected together near the load cell.

For less exacting applications you can connect the excitation to the sense at the connector.



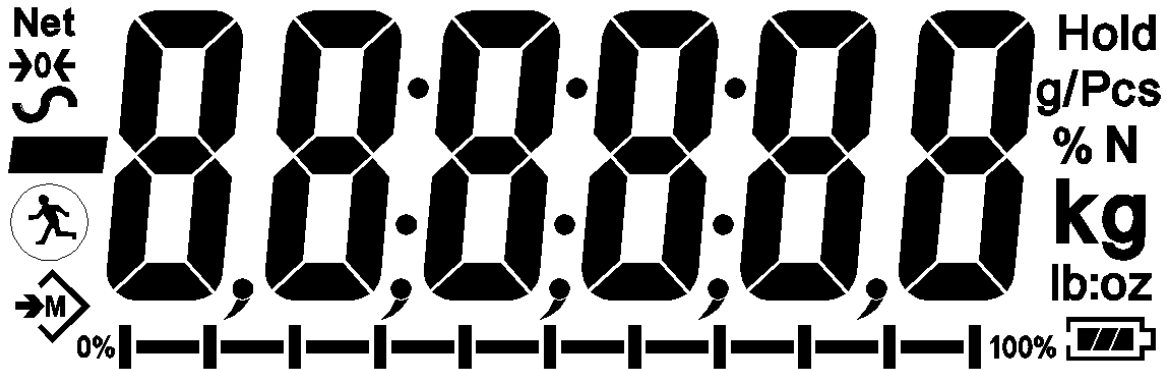
4. KEYPAD



| keypad | primary function | secondary function |
|--------|--|--|
| | Sets the zero point for all subsequent weighing. The display shows zero. | Escape from any setup menus |
| | Tares the indicator and stores the current weight in memory as a tare value, subtracts the tare value from the weight and shows the results. This is the net weight. | Move the active/flashing digit to the right when setting values for Parameters. |
| | <ul style="list-style-type: none"> Selects the weighing unit to be displayed from those which are enabled Press and hold to enter the setup menu, and set the date, time, backlight, automatic shutdown, checkweigher buzzer, unit and other parameters. | <ul style="list-style-type: none"> Allows the weight, single weight and count to be seen when parts counting or to change from weight to % in percent weighing. Press to scroll down the menu and decrease the flashing digits when entering the number. |
| | <ul style="list-style-type: none"> Press the cycle to select the weighing mode (counting, percentage, weighing). Press and hold to enter check weigh mode, then you can perform the check weigh operation. | <ul style="list-style-type: none"> Press to scroll up the menu and increase the flashing digits when entering the number. |
| | <ul style="list-style-type: none"> Press to send the scale results to the computer or printer Press and hold to enter the print Settings menu, set the print mode cumulative baud rate, parity check print language product ID user ID format, etc. | <ul style="list-style-type: none"> In setting mode, press to confirm the parameters If accumulation is turned on, press in the 0-bit state to retrieve the accumulated data stored in the product |

5. DISPLAY

GK-S indicator has a 40mm LCD screen with superb large font, which can display some or all of the following :



→0←

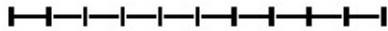
The display is at Zero

S


The scale is Stable
Net weight- The scale has been tared

kg / lb

Symbols shown for the units



Capacity Tracker- A bar graph indicating the proportion of the scale capacity being used by the weight on the pan

bAt LO or 

Low battery

%

The scale is in Percent weighing mode

pcs

The scale is in Parts counting mode



Accumulated data is stored in the indicator.



With an internal rechargeable battery, the battery charge is displayed, and the more black bars, the more sufficient the battery charge.

6.REGULAR OPERATION

6.1 POWER ON/OFF

There is a rocker reset switch with a waterproof rubber protective cap at the rear of the indicator.



Power on:

- When the adapter is plugged in, press the switch and the product will be turned on.
- When the internal battery is used and the adapter is not plugged in, press and hold the switch 2s and the product will be turned on.

Power off:

- When the adapter is plugged in, press the switch and the product will be turned off. The screen backlight will be turned off and there will be time to display it.
- When the internal battery is used and the adapter is not plugged in, press and hold the switch 2s and the product will be turned off. There is no display on the screen.

6.2 ZEROING THE DISPLAY

Zero the indicator by pressing [Zero]. the product can still be weighed at full range after zeroing,

6.3 TARE

Press [Tare/←] to remove the tare value when weighing. Weight that can be weighed after tared = full range-tare weight. Tare weight will be stored.

6.4 PRINT

Press the **PRINT** in the weighing interface to sending the results to the printer or computer.

7. CALIBRATION

- GK-S weighing indicator can select weights in kg or lb units for weight calibration, and the weight unit during calibration depends on the unit used by the user when weighing.
- Press and hold **UNIT/FUNC** when weighing, until **Date** is shown on the display.
- Using the buttons **MODE ↑** or **UNIT ↓**, scroll through to the menu, **CAL** will be shown on the display.
- Press **PRINT ↵** to confirm to calibration menu, **UNLoA** is shown on the display.
- Press **PRINT ↵** to calibrate the zero point, Make sure there is no item on the pan.
- The weight of the calibration weight will be displayed **XXXXXXkg**
- Press **MODE ↑** or **UNIT ↓** to change the numerical values, **T→** is to move the flashing digital position. Input the weight of the calibration weight you need, then press **PRINT ↵** to confirm.
- The weight of the calibration weight will be displayed, put the weight of the corresponding weight on the pan, and then press the **PRINT ↵** to complete the weight calibration.

8.WEIGHING

8.1 PARTS COUNTING

- Press **MODE** to enter mode menu when in weighing state, press **MODE ↑** or **UNIT ↓** to find **Parts**, and after two seconds, **PC 10** will be displayed, Then press **MODE ↑** to select the required number of samples..
- Place the corresponding number of parts on the pan, press **PRINT ↓** to confirm, the sampling is now complete, Then you can place the parts on the pan, and the number of the parts will be displayed.
- In counting mode, Press **UNIT** in turn to cycle through individual weight/total weight/number of parts.
- Press **MODE** return to normal weighing.

8.2 PERCENT WEIGHING

- Press **MODE** to enter mode menu when in weighing state, press **MODE ↑** or **UNIT ↓** to find **PEr**, and after two seconds, **PEr100** will be displayed.
- Place the percent weight sample required by the user on the pan, press **PRINT ↓** to confirm, now the sampling is now complete, Then you can place the items on the pan, and the percent weighing will be displayed.
- In percent weighing mode, press **UNIT** in turn to cycle to switch weight and percent weighing.
- Press **MODE** to return to normal weighing.

8.3 NORMAL WEIGHING MODE

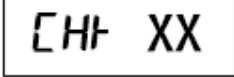
- In the mode menu, press **↑** or **↓** to find **WEiHt**, then press **↓** to go to the normal weighing interface.

8.4 CHECK-WEIGHING


GK-S weighing indicator has super backlight function, and users can judge the different states of weighing samples by different colors. The user can set the buzzer sound (off by default). See Chapter 9.5 for the setting method.


- Below the limit amber
- Between the limit green
- Above the high limit red

8.4.1 CHECK-WEIGHING

- Press and hold MODE/CHK in weighing mode, until  is displayed.

- Press ↑ or ↓ to turn the check-weighing function on, and then press ↵.

-  Will be displayed first, After 1 second, the amber light comes on and the number flashes , press **MODE ↑** or **UNIT ↓** to change the numerical values, **T→** is to move the flashing digital position to enter the lower limit of your sample, press **↵** to confirm.

-  will be displayed, After 1 second, the red light comes on and the number flashes, press **MODE ↑** or **UNIT ↓** to change the numerical values, **T→** is to move the flashing digital position, to enter the high limit of your sample. press **PRINT ↵** to confirm.

- Now the setting is complete, Users can quickly judge the weight range of the sample according to the color and buzz of the background light.

8.4.2 PERCENTAGE CHECK

In percent weighing mode, Set the percentage values of the lower limit and the upper limit according to the method in 8.4.1.

8.4.3 CHECK-COUNTING

In the count weighing mode, just set the number of parts with lower limit and upper limit according to the method in 8.4.1.

9. PARAMETER SETTINGS

In the parameter setting interface, the user can return to the weighing interface by pressing the **→0←** once or more after adjusting the parameters

9.1 DATE SETTING

- Press and hold **UNIT/FUNC** in weighing model to enter setup menu, until

dAtE is displayed.

- Press **PRINT↵** to enter the date menu.
- Press **MODE↑** or **UNIT↓** to select the date format required by the user.

| Display | Description |
|-----------------|----------------|
| YY.MM.dd | Year month day |
| MM.dd.yy | Month day year |
| dd.mm.yy | Day month year |

- Press **PRINT↵** to confirm, and the number corresponding to the date format will be displayed. Press **MODE↑** or **UNIT↓** to change the numerical values, **T→** is to move the flashing digital position to enter the date. Press the **PRINT↵** to confirm.

9.2 TIME SETTING

- Press and hold **UNIT/FUNC** in weighing interface to enter settings menu (Skip this step if you have entered the setup menu) .

- Press **MODE↑** or **UNIT↓** until **Time** is displayed.

- Press **PRINT↵** to confirm to enter the time menu, Time will be displayed. Press **MODE↑** or **UNIT↓** to change the numerical value, **T→** is to move the flashing digital position to enter the time. Press the **PRINT↵** to confirm .

9.3 BACKLIGHT SETTING

- Press and hold **UNIT/FUNC** in weighing interface to enter setup menu (Skip this step if you have entered the setup menu) .

Press **MODE↑** or **UNIT↓** until **bt** is displayed.

- Press **PRINT↵** to confirm to enter the backlight setting menu.

- Press **MODE ↑** or **UNIT ↓** to select the backlight state required by the user.

| Display | Description |
|-------------|--|
| on | Always on |
| auto | automatic, Auto-turn off the backlight 6 seconds after stabilization in weighing mode. |
| off | Always off |

- Press **PRINT ↵** to confirm after adjustment.

9.4 AUTO POWER-OFF

- Press and hold **UNIT/FUNC** in weighing interface to enter setup menu (Skip this step if you have entered the setup menu) .

- Press **MODE ↑** or **UNIT ↓** until **Power** is displayed.

- Press **PRINT ↵** to confirm to enter auto power off setting.

- Press **MODE ↑** or **UNIT ↓** to select the auto power off required by the user.

| DISPLAY | DESCRPITION |
|---------------|--|
| off 0 | No auto power-off |
| off 1 | Auto power-off after 1 minute without operation. |
| off 5 | Auto power-off after 5 minutes without operation. |
| off 10 | Auto power-off after 10 minutes without operation. |

- Press **PRINT ↵** to confirm after adjustment.

9.5 CHECK THE BEEP SETTING OF WEIGHING BUZZER

- Press and hold **UNIT/FUNC** in weighing interface to enter setup menu (Skip this step if you have entered the setup menu) .

- Press **MODE ↑** or **UNIT ↓** until **CH BP** is displayed.

- Press **PRINT ↵** to confirm the setting of the prompt tone of the weighing buzzer.

- Press **MODE ↑** or **UNIT ↓** to select the a prompt tone of the weighing buzzer required by the user.

| Display | Description |
|------------|--|
| off | Turn off the check weighing buzzer. |
| in | Upper and lower limits are audible within the range. |
| out | An out-of-range tone |

- Press **PRINT**↵ to confirm after adjustment.

9.6 UNIT SWITCH SETTING

This menu can help users turn on commonly used weighing units and turn off unused weighing units. It is more convenient for users to switch weighing units in the weighing interface.

- Press and hold **UNIT/FUNC** to setup menu when in weighing interface, until

Unit is displayed.

- Press **PRINT**↵ to confirm to enter the unit switch setting menu. Press **MODE**↑ or **UNIT**↓ to turn on or off a weighing unit after entering the menu, press **PRINT**↵ to confirm the change and enter the next unit setting.
- Unit menu list

| unit | menu | Description |
|---|--------|-----------------|
| kg | Un on | Kg unit on |
| | Un off | Kg unit off |
| g(This menu is not available for a large range) | Un on | g unit on |
| | Un off | g unit off |
| lb | Un on | lb unit on |
| | Un off | lb unit off |
| oz | Un on | OZ unit on |
| | Un off | OZ unit oFF |
| lb:oz | Un on | lb: OZ unit on |
| | Un off | lb: OZ unit oFF |

- After setting all unit switches, the product will be returned to

Un it

- Press **→0←** to return to weighing interface, the parameter setting is now complete.

10. RS232 COMMUNICATION INTERFACE

GK-S indicator is supplied with bidirectional RS232 interface as standard. The data can be output to a printer or a computer, and the weighing indicator can be controlled by the computer.

10.1 PROTOCOL AND INTERFACE

Default Specifications:

```
RS-232 output of weighing data
ASCII code
4800 Baud (user selectable)
8 data bits
No Parity (user selectable)
```

Connector:

```
9 pin d-sub miniature socket
Pin 3 TXD
Pin 2 RXD
Pin 5 GND
```

The indicator can be set to print text in English, French, Spanish or German. See the RS-232 parameters section for details.

10.2 TEXT OUTPUT FORMAT

10.2.1 SINGLE FORMAT

- In weighing mode, the scale outputs the following contents:

```
0.395 kg <cr><lf>
```

- In counting mode, the scale Output the following contents:

```
10pcs <cr><lf>
```

- In percentage mode, output the following contents:

```
9.20 % <cr><lf>
```

10.2.2 FORMAT 1

- In weighing mode, output the following contents:

| | | | |
|----------|----------|----------|--------------------------|
| No | 1 | <cr><lf> | It is available if AC on |
| Gross Wt | 0.036 kg | <cr><lf> | Gross Wt. (or Net wt.) |
| | | <cr><lf> | |
| | | <cr><lf> | |

- In counting model, output the following contents:

| | | | |
|--------|---------------|----------|--------------------------|
| No | 2 | <cr><lf> | It is available if AC on |
| Net Wt | 0.358 kg | <cr><lf> | Net wt. (or Gross Wt.) |
| Net Wt | 35.8060 g/pcs | <cr><lf> | Net wt. (or Gross Wt.) |
| PCS | 10pcs | <cr><lf> | |
| | | <cr><lf> | |
| | | <cr><lf> | |

- In percentage mode, output the following contents:

| | | | |
|--------|---------|----------|--------------------------|
| No | 2 | <cr><lf> | It is available if AC on |
| Net Wt | 10.09 % | <cr><lf> | Net wt. (or Gross Wt.) |
| | | <cr><lf> | |
| | | <cr><lf> | |

10.2.3 FORMAT 2

- In weighing mode, output the following contents:

| | | | |
|----------|------------|----------|--|
| | | <cr><lf> | |
| | | <cr><lf> | |
| DATE | 26/07/2023 | <cr><lf> | |
| TIME | 17:44:45 | <cr><lf> | |
| | | <cr><lf> | |
| Scale ID | 12345 | <cr><lf> | |
| User ID | 54321 | <cr><lf> | |
| | | <cr><lf> | |
| No | 1 | <cr><lf> | It is available if AC on Net wt. (or Gross Wt.) |
| Net Wt | 0.036 kg | <cr><lf> | |
| | | <cr><lf> | |
| | | <cr><lf> | |

- In counting model, output the following contents:

| | | | |
|----------|---------------|----------|---|
| | | <cr><lf> | |
| | | <cr><lf> | |
| DATE | 27/07/2023 | <cr><lf> | |
| TIME | 10:32:57 | <cr><lf> | |
| | | <cr><lf> | |
| Scale ID | 00000 | <cr><lf> | |
| User ID | 00000 | <cr><lf> | |
| | | <cr><lf> | |
| No | 1 | <cr><lf> | It is available if AC on Net wt. (or Gross Wt.) Net wt. (or Gross Wt.) |
| Net Wt | 0.036 kg | <cr><lf> | |
| Net Wt | 3.56494 g/pcs | <cr><lf> | |
| PCS | 10pcs | <cr><lf> | |
| | | <cr><lf> | |

-

- In percentage mode, output the following contents:

```

                                <cr><lf>
                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  12:07:59                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
                                <cr><lf>
No          3                    <cr><lf>
Net  Wt     719.2  %             <cr><lf>
                                <cr><lf>
                                <cr><lf>
                                <cr><lf>

```

It is available if AC on
Net wt. (or Gross Wt.)

10.2.3 FORMAT 3

- In weighing mode, output the following contents:

```

                                <cr><lf>
                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  13:51:28                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
                                <cr><lf>
No          1                    <cr><lf>
Net  Wt     0.315 kg             <cr><lf>
Tare Wt     0.773 kg            <cr><lf>
Gross Wt    1.088 kg            <cr><lf>
                                <cr><lf>
                                <cr><lf>

```

It is available if AC on

- In counting model, output the following contents:

```

                                <cr><lf>
                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  13:59:53                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
<cr><lf>
No        5                      <cr><lf>   It is available if AC on
Net  Wt   0.340 kg                <cr><lf>
Net  Wt   16.2542 g/pcs           <cr><lf>
PCS       21pcs                  <cr><lf>
Tare Wt   0.773 kg                <cr><lf>
Gross Wt  1.113 kg                <cr><lf>
                                <cr><lf>
                                <cr><lf>

```

- In percentage mode, output the following contents:

```

                                <cr><lf>
                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  14:05:57                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
                                <cr><lf>
No        1                      <cr><lf>   It is available if AC on
Net  Wt   115.15 %                <cr><lf>
Tare Wt   0.773 kg                <cr><lf>
Gross Wt  1.169 kg                <cr><lf>
                                <cr><lf>
                                <cr><lf>

```

-

10.2.4 ACCMULATIVE DATA OUTPUT FORMAT STORED INTERNALLY

- In weighing mode, the following contents are output in different formats

Single format:

```
                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  14:34:23                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
                                <cr><lf>
-----                          <cr><lf>
Total                                         <cr><lf>
No              10                        <cr><lf>
Total Wt      9.850 kg                    <cr><lf>
                                <cr><lf>
                                <cr><lf>
```

format 1

```
Total          10    9.850 kg  <cr><lf>
```

format 2

```
                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  14:55:43                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
                                <cr><lf>
-----                          <cr><lf>
Total                                         <cr><lf>
No              10                        <cr><lf>
Min             0.036 kg                  <cr><lf>
Max             2.606 kg                  <cr><lf>
Average        0.985 kg                  <cr><lf>
Total Wt      9.850 kg                    <cr><lf>
                                <cr><lf>
                                <cr><lf>
```

format 3

```

DATE 27/07/2023
TIME 15:02:13

Scale ID 00000
User ID 00000

-----
Total
No 1
Weight 0.395 kg
No 2
Weight 0.389 kg
No 3
Weight 0.394 kg
No 4
Weight 2.606 kg
No 5
Weight 2.606 kg
No 6
Weight 0.036 kg
No 7
Weight 0.155 kg
No 8
Weight 2.606 kg
No 9
Weight 0.417 kg
No 10
Weight 0.246 kg

-----
No 10
Min 0.036 kg
Max 2.606 kg
Average 0.985 kg
Total Wt 9.850 kg
```


- In the counting mode, the following contents are output in different formats respectively.

Single format

```

DATE 27/07/2023 <cr><lf>
TIME 15:26:25 <cr><lf>
Scale ID 00000 <cr><lf>
User ID 00000 <cr><lf>
----- <cr><lf>
Total <cr><lf>
No 6 <cr><lf>
Total Wt 1.123 kg <cr><lf>
PCS 86 <cr><lf>
<cr><lf>
<cr><lf>

```

format 1

```

Total 6 1.123 kg 86pcs <cr><lf>

```

format 2

```

DATE 27/07/2023 <cr><lf>
TIME 15:35:56 <cr><lf>
Scale ID 00000 <cr><lf>
User ID 00000 <cr><lf>
----- <cr><lf>
Total <cr><lf>
No 6 <cr><lf>
Min 10pcs <cr><lf>
Max 30pcs <cr><lf>
Average 14pcs <cr><lf>
Total Wt 1.123 kg <cr><lf>
PCS 86 <cr><lf>
<cr><lf>
<cr><lf>

```

format 3

```

                                <cr><lf>
DATE  27/07/2023                <cr><lf>
TIME  15:43:15                  <cr><lf>
                                <cr><lf>
Scale ID  00000                  <cr><lf>
User ID   00000                  <cr><lf>
                                <cr><lf>
-----                          <cr><lf>
Total                                          <cr><lf>
No           1                            <cr><lf>
Weight      10pcs                          <cr><lf>
No           2                            <cr><lf>
Weight      10pcs                          <cr><lf>
No           3                            <cr><lf>
Weight      30pcs                          <cr><lf>
No           4                            <cr><lf>
Weight      10pcs                          <cr><lf>
No           5                            <cr><lf>
Weight      16pcs                          <cr><lf>
No           6                            <cr><lf>
Weight      10pcs                          <cr><lf>
                                <cr><lf>
-----                          <cr><lf>
No           6                            <cr><lf>
Min          10pcs                          <cr><lf>
Max          30pcs                          <cr><lf>
Average      14pcs                          <cr><lf>
Total Wt    1.123 kg                        <cr><lf>
PCS         86                              <cr><lf>
                                <cr><lf>
                                <cr><lf>

```

- In percentage mode, enter the following contents in different formats.

Single format

```

                                     <cr><lf>
DATE  27/07/2023                    <cr><lf>
TIME  17:25:52                       <cr><lf>
                                     <cr><lf>
Scale ID  00000                       <cr><lf>
User ID   00000                       <cr><lf>
                                     <cr><lf>
-----                              <cr><lf>
Total                                         <cr><lf>
No              7                            <cr><lf>
Total Wt      2.110 kg                      <cr><lf>
PERCENT      535.30%                       <cr><lf>
                                     <cr><lf>
                                     <cr><lf>

```

format 1

```

Total              7    2.040 kg  517.27%  <cr><lf>

```

format 2

```

                                     <cr><lf>
DATE  27/07/2023                    <cr><lf>
TIME  17:39:43                       <cr><lf>
                                     <cr><lf>
Scale ID  00000                       <cr><lf>
User ID   00000                       <cr><lf>
                                     <cr><lf>
-----                              <cr><lf>
Total                                         <cr><lf>
No              7                            <cr><lf>
Min             33.21 %                     <cr><lf>
Max            132.84 %                     <cr><lf>
Average        73.90 %                     <cr><lf>
Total Wt      2.040 kg                      <cr><lf>
PERCENT      517.27%                       <cr><lf>
                                     <cr><lf>
                                     <cr><lf>

```

format 3

```

                                <cr><lf>
DATE 27/07/2023                <cr><lf>
TIME 17:44:51                  <cr><lf>
                                <cr><lf>
Scale ID 00000                  <cr><lf>
User ID 00000                   <cr><lf>
                                <cr><lf>
-----                        <cr><lf>
Total                            <cr><lf>
No 1                             <cr><lf>
Weight 82.55 %                   <cr><lf>
No 2                             <cr><lf>
Weight 99.53 %                  <cr><lf>
No 3                             <cr><lf>
Weight 33.21 %                  <cr><lf>
No 4                             <cr><lf>
Weight 53.39 %                  <cr><lf>
No 5                             <cr><lf>
Weight 132.84 %                 <cr><lf>
No 6                             <cr><lf>
Weight 33.27 %                  <cr><lf>
No 7                             <cr><lf>
Weight 82.48 %                  <cr><lf>
                                <cr><lf>
-----                        <cr><lf>
No 7                             <cr><lf>
Min 33.21 %                     <cr><lf>
Max 132.84 %                    <cr><lf>
Average 73.90 %                 <cr><lf>
Total Wt 2.040 kg               <cr><lf>
PERCENT 517.27%                 <cr><lf>
                                <cr><lf>
                                <cr><lf>

```

10.2.5 NOTE:

1. The accumulated total will not be sent to the RS-232 when the continuous print is turned on.
2. The continuous print will only be for the current weight and the display data.
3. In other languages the format is the same but the text will be in the language selected.
4. When the scale is in the Lb:oz weighing unit the RS-232 output will only show pounds. 10lb:8oz will be printed as 10.5 lb.

| Description | ENGLISH | FRENCH | GERMAN | SPANISH |
|---|-----------------|-----------------|------------------|-------------------|
| Net weight | Net Wt. | Pds Net | Net-Gew | Pso Net |
| Weight per unit counted | Unit Wt. | Pds unit | Gew/Einh | Pso/Unid |
| Number of items counted | Pcs | Pcs | Stck. | Piezas |
| Number of weighing added to subtotals | No. | Nb. | Anzhl | Num. |
| Total weight and count printed | Total | Total | Gesamt | Total |
| Print date | Date | Date | Datum | Fecha |
| Print time | Time | Heure | Zeit | Hora |
| Scale ID number | Scale ID | Bal ID | Waagen ID | Bal ID |
| User ID Number | User ID | Util ID | Nutzer ID | Usuario ID |

10.3 INPUT COMMANDS FORMAT

**The indicator can be controlled with the following commands.
Press the [Enter] key of the PC after each command.**

T<cr><lf> Tares the indicator to display the net weight. This is the same as pressing [Tare].

Z<cr><lf> Sets the zero point for all subsequent weighing. The display shows zero.

P<cr><lf> Prints the results to a PC or printer using the RS-232 interface. It also adds the value to the accumulation memory if the accumulation function is not set to automatic.

11. COMMUNICATION PARAMETER SETTING

- In weighing mode, Press and hold **PRINT** to confirm to enter communication parameter setup menu.
- Adjust the communication parameters ,you need according to the following menu

(press **PRINT** to confirm to enter menu or confirm the changed parameter.

MODE or **UNIT** to scroll through the menu or adjust the parameter, change the numerical values when entering a number, **T** is to move flashing digital position) .

| | | |
|------------------|---------------------|----------------------|
| menu | parameter selection | |
| P Mode | Manual | manual output |
| Data output mode | Auto | Auto output |
| | Cont | continuous output |
| | oFF | Turn off data output |
| ACC on | | |
| | | ACC off |
| baud | b 2400 | |
| Baud rate | b 4800 | |
| | b 9600 | |
| | b19200 | |
| | b38400 | |
| parity | none | No parity |
| Parity | even | Even parity |
| | odd | Odd parity |
| LANg | ENGLIS | English |
| | FRENCH | French |
| | SPAN | Spanish |
| | GERMAN | German |
| s-id | 000000 | |
| u-id | 000000 | |
| Format | single | Single format |
| | for 1 | Format 1 |
| | for 2 | Format 2 |

For 3 Format 3

Refer to Chapter 10.2 for the output content and introduction of each format.

12.CALL AND OPERATION OF ACCUMULATED DATA

When the accumulation function of the indicator is turned on, 100 groups of accumulated data can be stored in it, and it has powerful statistical function. You can count the times of accumulation, the total weight, average value, maximum value, minimum value, and the difference between maximum and minimum value of all data.

- Press **PRINT** to enter the Cumulative data statistics interface when in zero point.

ACC XX(XX stands for accumulation times) will be displayed first, and then jump to the digital interface. Use different backlight colors to represent different statistical values, Press the **MODE ↑** to cycle through different statistical values. See the table below for the statistical values represented by backlight colors:

| | |
|-------|--|
| white | Total weight |
| amber | minimum value |
| red | maximum value |
| blue | The difference between the maximum and the minimum |
| green | Average value |

- Press **PRINT** to output the accumulated data to a computer or printer (See Chapter 10.2.4 for the data format)
- Press **→0←** to clear all the accumulated data before
- Press **→T** to exit the statistics interface .

13. DEALER PARAMETER SETTING

- Press the **→0←** during the self-test,

| |
|------------------|
| P - - - - |
|------------------|

 will be displayed.
- Enter the password 0000. (Press **MODE ↑** or **UNIT ↓** to change the numerical values when entering a number, **T→** is to move the flashing digital position)
- Press **PRINT ↵** to confirm, the product will enter the dealer menu, and set the dealer parameters according to the following menu.
- After entering the dealer menu. Press **PRINT ↵** to confirm to enter the menu or confirm the changed parameters. Press **MODE ↑** or **UNIT ↓** to scroll through the menu or adjust the parameters, adjust the value when entering the number, and press **T→** to move the flashing digital position.

CAL (calibration)

UNLOAD

(zero calibration)

XXKG

(calibrating weight)

adcnt (module)

Auto-z (automatic re-zeroing)

0.5d

1.0d

1.5d

2.0d

2.5d

3.0d

Off

P-Zero (zeroing range on start-up)

1 %

2 %

5 %

10 % (default)

20 %

50 %

100 %

K-Zero (Keypad zero range)

1 %

2 %

4 % (default)

5 %

10 %

20 %

Filter

Sloy

fast

mid

G1 (Factory gravity value)

This gravity value generally does not need to be set, and the gravity value set after calibration will be invalid

G2 (Location gravity value)

13. FACTORY MENU

- Press the **→0←** during the self-test, **P - - - -** will be displayed.
- Enter the password 1946 (Press **MODE↑** or **UNIT↓** to change the numerical values when entering a number ,press **T→** to move the flashing digital position) .
- Press **PRINT⏏** to confirm , the product will enter the factory menu, The menus are displayed as follows :

| | |
|---------------|-----------------------------------|
| adcnt | module |
| Capa | Range and readability |
| Auto-z | Auto-zero |
| p-zeRo | Zeroing range on start-up |
| t-2Er0 | Keypad zero range |
| FILER | filter |
| G1 | Gravity value of calibration site |
| G2 | Location gravity value |
| Linear | Linear calibration |
| m-taRE | Manual tare |
| dot | Decimal display mode |
| reset | formatting |

13. 1 ANALOG-TO-DIGITAL

Analog-to-digital (AD) is the numerical value displayed after the sensor's electrical signal is directly converted by the AD chip, and the working condition of the loadcell can be quickly judged through the analog-to-digital signal. The modulus range is 0-1 million. The heavier the loading weight, the greater the value, and the modulus at no load must be greater than 0.

- The first menu after entering the factory menu , **ADcn t** will be displayed.
- Press **PRINT** to confirm to enter the module menu, and the module will be displayed automatically.
- Press **PRINT** to confirm after checking the modulus.

13.2 RANGE AND RESOLUTION SETTING

- When entering the factory menu, Press **MODE** or **UNIT** to scroll through the menu until **CAPA** is displayed.
- Press **PRINT** to enter the menu, The interface for selecting weight unit will be displayed, press **MODE** or **UNIT** to select kg or Lb to set range and resolution according you needs, press **PRINT** to confirm.
- The interface for selecting product decimal places will be displayed, The user can press the **MODE** or **UNIT** to select one of the following parameters.

| | |
|----------------|----------------------------------|
| P 0 | No readings after decimal point. |
| P 0.0 | Display to 1 decimal place |
| P 0.00 | Display to 2 decimal places |
| P 0.000 | Display to 3 decimal places |
| P0.0000 | Display to 4 decimal places |

- Press **PRINT** to confirm, after **CAPA** 1 second, the screen will display and jump to the range digital input interface, Press **MODE** or **UNIT** to change the numerical values, **T** to move the flashing digital position to input the desired range ,Pay attention to the position of the decimal point when inputting the range. For example, the range is 30kg with 3 decimal places, and the range should be 30.000 instead of 0.0030.

- Press **PRINT** to confirm, the minimum score interface will be displayed. press **MODE** or **UNIT** to select the minimum score interface according you needs.
- Press **PRINT** to confirm, The Range and resolution setting is now complete.

13.3 SET AUTOMATIC RETURN TO ZERO

- Press **MODE** or **UNIT** to scroll through the menu until **AUTO-** is displayed after entering the factory menu.
- Press **PRINT** to enter the auto-zero setting menu, press the **MODE** or the **UNIT** to select one of the following parameters, and then press **PRINT** to confirm.

| | |
|-------------|--|
| 0.5d | Automatic return to zero within 0.5 division value of zero weight. |
| 1.0d | Automatic return to zero within 1 division value of zero weight. |
| 1.5d | Automatic return to zero within 1.5 division values of zero weight. |
| 2.0d | Automatic return to zero within 2 division values of zero weight. |
| 2.5d | Automatic return to zero within 2.5 division values of zero weight. |
| 3.0d | Automatic return to zero within 3 division values of zero weight. |
| OFF | Turn off automatic zero return, and the product will not automatically return to zero. |

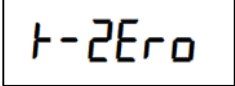
13.4 ZERO RANGE SETTING ON START-UP

- Press **MODE** or **UNIT** to scroll through the menu until **P-ZERO** is displayed after entering the factory menu
- Press **PRINT** to confirm to enter the setting menu of boot zero range , press the **MODE** or the **UNIT** to select one of the following parameters, and then press **PRINT** to confirm.

| | |
|--------------|--|
| 1 % | Weight on the pan less than 1% returns to zero when the product is turned on. |
| 2 % | Weight on the pan less than 2% returns to zero when the product is turned on. |
| 5 % | Weight on the pan less than 5% returns to zero when the product is turned on. |
| 10 % | Weight on the pan less than 10% returns to zero when the product is turned on (default) |
| 20 % | Weight on the pan less than 20% returns to zero when the product is turned on. |
| 50 % | Weight on the pan less than 50% returns to zero when the product is turned on. |
| 100 % | Weight on the pan less than 0% returns to zero when the product is turned on. |
| OFF | Turn off the boot to zero, If there is any change in the zero position. The product will not display 0 when it is turned on. |

The above percentage represents the percentage of full-scale weight in the last calibration, and the zero position is the zero position in the last calibration. This parameter can prevent the product from not displaying 0 when the zero position changes.

13.5 KEYPAD ZERO RANGE SETTING

- Press **MODE ↑** or **UNIT ↓** to scroll through the menu until  is displayed after entering the factory menu.
- Press **PRINT ↵** to enter the setting menu of the zero key, press **MODE ↑** or **UNIT ↓** to select one of the following parameters, press **PRINT ↵** to confirm.

| | |
|-------------|---|
| 1 % | Zero range of the zero key is within 1% of the range. |
| 2 % | Zero range of the zero key is within 2% of the range. |
| 4 % | Zero range of the zero key is within 4% of the range. |
| 5 % | Zero range of the zero key is within 5% of the range. (default) |
| 10 % | Zero range of the zero key is within 10% of the range. |

| | |
|------|--|
| 20 % | Zero range of the zero key is within 20% of the range. |
|------|--|

13.6 FILTER PARAMETER SETTING

The filter parameters of the product are set according to the user's using environment. The worse the environment, the slower the filter setting and the longer the product stability time.

- Press **MODE** ↑ or **UNIT** ↓ to scroll through the menu until **FILER** is displayed
- Press **PRINT** ⏎ to enter the filter parameter setting menu, press the **MODE** ↑ or **UNIT** ↓ to select one of the following parameters, and then press **PRINT** ⏎ to confirm.

| | |
|-------------|--------|
| SLOY | slow |
| mid | middle |
| fast | fast |

13.7G1/G2 GRAVITY VALUE SETTING

The gravity value in the G1/G2 menu does not need to be set by the user, and this menu can help reduce product errors after calibration in the factory and sending to different gravity zone locations. Gravity parameter value will be invalid after user calibration, The factory gravity zone setup must be performed as follows:

- First, set the gravity values in G1 and G2 to be consistent with the current calibration.
- Calibrate the product after setting it up.
- Change the gravity value in G2 to the gravity value of the destination.

13.8 LINEAR CALIBRATION

when the user buys the indicator and connects it to the scale he needs, he must carry out linear calibration, the weights used in linear calibration must conform to the accuracy of the user's scale.

To change the value ,press **MODE↑** or **UNIT↓** , press **T→** is to move the flashing digital position.

- Press **MODE↑** or **UNIT↓** after entering the factory menu, Scroll through the menu until **Linear** is displayed.
- Press **PRINT↵** to go to Linear calibration menu, **UnLoa** will be displayed.
- Remove all items on the pan, Press **PRINT↵** to calibrate the zero position of the product.
- “LOAD 1” is displayed, will jump to the weight input interface after 1 second. Enter the first linear point calibration weight, and the weight is generally 1/3 or 1/2 of the range. Press the **PRINT↵** to confirm after input.
- Put the Weight of prompt weight on the scale and press the **PRINT↵** to confirm the calibration of the first linear point. Then the screen will display LOAD 2, and after 1 second, it will jump to the weight input interface. the second linear point calibration weight is input, and the weight is generally 2/3 of the range or full range. Press the **PRINT↵** to confirm after input.
- Put the Weight of prompt weight on the scale and press the **PRINT↵** to confirm the calibration of the second linear point. If the calibration is successful, the screen will display PASS, and then the product will be restarted and then returned to the weighing interface. At this time, the linear calibration is over.

13.9 MANUAL TARE SETTING

This parameter can set the switch of manual tare. When manual tare is turned off, the product will not be tared when the tare key is pressed, and this parameter is turned on by default

- Press **MODE↑** or **UNIT↓** after entering factory menu, scroll through until **M-taRE** is displayed.
- Press **PRINT↵** to confirm to enter the filter parameter setting menu, press the **MODE↑** or **UNIT↓** to select one of the following parameters, and then press **PRINT↵** to confirm.

| | |
|---------------|-----------------|
| Tr on | Manual tare on |
| Tr OFF | Manual tare off |

13.10 DECIMAL POINT DISPLAY MODE SETTING

The decimal point display mode can be set as comma "," or dot "."

- After entering the factory menu, press **MODE ↑** **UNIT ↓** to scroll through the menu until **Dot** is displayed.

| |
|------------|
| Dot |
|------------|

- Press **PRINT ↵** to confirm to enter the filter parameter setting menu, press **MODE ↑** or **UNIT ↓** to select one of the following parameters, and then press the **PRINT ↵** to confirm.

| | |
|--------------|-----------------------|
| dot | Displayed as dots “.” |
| Comma | Display as comma “,” |

13.11 FORMATTING

This menu can format all user settings, calibration data, etc. and restore to the original factory parameters.

- After entering the factory menu, press the **MODE ↑** or **UNIT ↓** to scroll through the menu until **rESET** is displayed.

| |
|--------------|
| rESET |
|--------------|

- Press **PRINT ↵** to confirm to enter the format menu, and press **MODE ↑** or **UNIT ↓** to adjust the parameters to **dEF ot**

| |
|---------------|
| dEF ot |
|---------------|

- Press the **PRINT ↵** to confirm, The product formatting is now complete.

14. FAILURE CODE

| Failure code | Possible causes | Suggestions |
|---------------|---|---|
| ERR 1 | Time setting error | Set the correct time, with the hours not exceeding 24 and the minutes and seconds not exceeding 60 |
| Err 2 | Date setting error | Set the correct date, the month cannot exceed 12, and the day cannot exceed 31. |
| | Error in setting the weight of linear calibration weight | Set the correct linear calibration weight value, generally the first point is 1/3 or 1/2 of the range. The weight of the second linear point is 2/3 of the range or full range. |
| Err 4 | Zero is out of range | <ul style="list-style-type: none"> • There is a heavy item on the scale when it is turned on. • The zero position has changed, and the weight calibration is carried out in dealer mode. |
| ERR 6 | ADC error | <ul style="list-style-type: none"> • Check whether the connection between the indicator and the scale is normal • Load cell could be damaged • The AD chip of PCB is damaged |
| ERR 7 | Percentage sampling error | Sample percentage according to the manual. |
| Err 9 | Error in setting the upper and lower limits of check-weigh function | Set the correct upper and lower limits according to the manual, and the lower limit must be smaller than the upper limit. |
| Unstab | Unstable reading | <ul style="list-style-type: none"> • Check whether the environment is normal • Check whether the operating voltage is too low. • The contact of indicator loadcell connector is not very good • There is interference inside the loadcell • AD chip is damaged |

| | | |
|---------------|-------------------------------------|--|
| FAIL L | The calibration weight is too small | The calibrated weight should be greater than 1/3 of the measuring range and consistent with the set weight of the calibrated weight. The calibrated weight should be greater than 1/3 of the measuring range and consistent with the set weight of the calibrated weight. |
| FAIL H | The calibration weight is too large | The calibrated weight shall not exceed the full scale and be consistent with the set weight of the calibrated weight. |
| ADD ER | Internal storage is full | Clear the accumulated data inside the product. |

15. WARRANTY INFORMATION

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery. During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorised Technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service center should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorised modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual.

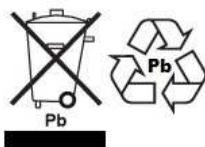
This product may include a rechargeable battery that is designed to be removed and replaced by the user. Adam Equipment warrants that it will provide a replacement battery if the battery manifests a defect in materials or workmanship during the initial period of use of the product in which the battery is installed.

As with all batteries, the maximum capacity of any battery included in the product will decrease with time or use, and battery cycle life will vary depending on product model, configuration, features, use, and power management settings. A decrease in maximum battery capacity or battery cycle life is not a defect in materials or workmanship, and is not covered by this Limited Warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

WEEE 2012/19/EU



This device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Disposal of batteries (if fitted) must conform to local laws and restrictions.

Cet appareil ne peut être éliminé avec les déchets ménagers. L'élimination de la batterie doit être effectuée conformément aux lois et restrictions locales.

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian ICES-003/NMB-003 regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CALIFORNIA PROPOSITION 65 - MANDATORY STATEMENT

WARNING: This product includes a sealed lead-acid battery which contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Adam Equipment products have been tested with, and are always supplied with mains power adaptors which meet all legal requirements for the intended country or region of operation, including electrical safety, interference and energy efficiency. As we often update adaptor products to meet changing legislation it is not possible to refer to the exact model in this manual. Please contact us if you need specifications or safety information for your particular item. Do not attempt to connect or use an adaptor not supplied by us.

CE EU Declaration of Conformity

| | |
|--|---|
| 2014/30/EU , Electro Magnetic Compatibility Directive | EN IEC 61326-1:2021 , Electrical Equipment for Measurement, Control and Laboratory Use – EMC requirements – Part 1: general requirements. |
| 2014/35/EU , Low Voltage Directive | EN 61010-1:2010/A1:2019/AC:2019-04 , Safety requirements for measurement, control and laboratory use – Part 1: General requirements. EN IEC 62368-1:2020 , Audio/video, information, and communication technology equipment - Part 1: Safety requirements |
| 2015/863/EU , RoHS 3, on the Restriction of the use of certain hazardous substances in electrical and electronic equipment (recast) | EN IEC 63000: 2018 , Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances |
| 2014/31/EU , Non-automatic Weighing Equipment Directive * | BS EN 45501:2015, OIML R76-1 (2006) |
| 2006/42/EC , Machinery Directive | EN ISO 12100:2010 , Safety of machinery — General principles for design — Risk assessment and risk reduction |
| FCC Rules (applicable for Adam Box, CB Balance Series) | 47 CFR Part15, Subpart B:2016 |

* Applies only to certified non-automatic weighing instruments designated by ..M suffix and which have legal metrology marks applied

Module B – See instrument type approval certificate for details of the issuing Notified Body.

Module D – Approved by RISE Research Institutes of Sweden AB | Certification (NB 0402), Box 857, 50115 Boras, Sweden

ADAM EQUIPMENT is an ISO 9001:2015 certified global company with more than 40 years' experience in the production and sale of electronic weighing equipment.

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- Mechanical Scales
- Counting Scales
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales
- Crane scales
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