

IDS814 Service Manual

(Ver-2)




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1. Important Reminder

- * Protect the scale from rain and water
- * Protect the scale from high temperature and moist
- * Prevent the scale from cockroach and other insects
- * Handle the scale with care. Do not dash the scale.
- * If the scale is not going to be used for a long period of time, clean the scale with cloth, then, store it in a cool, dry place and recharge the battery every 3 months.

2. Before Using the Scale

- * Install the scale on an even level and stable surface for accurate weighing.
- * Avoid using the scale in an environment of either:
 - Gusty wind (e.g. near an air conditioner outlet or fan outlet)
 - Presence of vibration (e.g. Near a heavy machine)
 - Direct sunlight
- * Use the scale within the temperature range of 0°C ~ 40°C. Avoid using it in an environment where temperature constantly changes.
- * Turn on the scale for about 15 minutes before use.
 - Check the voltage before plugging in: independent AC outlet for this scale is recommended to avoid interference.
- * Make sure to fully charge the battery before its first use.
 - Charge the battery by plugging in the power code.
 - When the charger indicator is lit in:
 - RED= this means that charging is in progress
 - GREEN= this means that charging is complete
 - (It takes about 8 hours to fully charging the battery)
 - When the scale shows , pls charging the battery in time.
- * Specification for the print paper
 - Diameter: 30mm
 - Width: 58mm
 - Material: thermal printing paper

3. Keypad Instruction

| COUNT | SMPL | HILO SHOW | UNIT | PRE SET | ^/B.L |
|-------|------|-----------|------|---------|-----------|
| M+ | MC | PRE TARE | Z | T | PRT/ENTER |

Instructions

| | |
|-------------|--|
| COUNT | Enter in the counting mode after setting the quantity of sample |
| SMPL | Enter in the counting mode and set the quantity of sample |
| M+ | Accumulate weight, quantity and frequency Review the accumulated data when the scale is unloaded |
| MC | Clear the accumulated data Clear the preset data of HI-LO-OK alarm |
| PRE TARE | Pre tare the packing weight |
| HI-LO SHOW | Review the preset data of HI-LO-OK alarm |
| T | Tare the weight |
| Z | Zero the scale |
| UNIT | Select the weight units between kg and g (Hongkong pounds and lb can be available in specific versions) |
| PRE SET | Pre set the data for HI-LO-OK Alarm |
| ^ B/L | Select backlight mode or input numbers |
| PRT ENTER | Print current data or confirm the input numbers |

4. Power Supply

- * Rechargeable battery: 6V/4Ah
- * Power: AC 220V/50HZ

5. Function Instruction

5.1 Backlight

Press [^ | B/L] key to select the backlight mode. There are three modes.

- "BL. AUTO": The backlight is automatically on when the load weight is not 0. Otherwise, the backlight is off.
- "BL.ON": Backlight is always on.
- "BL.OFF": Backlight is always off.

5.2 Weight Units

Press [UNIT] key to select the weight units. There are 2 units for selection, The current unit is autosaved by turning off the scale.

(Note: the scale's weight unit can be preset in the function setting mode)

5.3 Weight HI-LO-OK Alarm

(1) Pre set weight "HI value", "LO value" and "Alarm mode".

- Pre set the data by using [^ | B/L] key (input numbers), [PRE SET] key (shift), [PRT / ENTER] key (confirm the input numbers).
- Pressing [PRE SET] key, the scale shows "000.00L" or the LO value set before. Input the new LO value.
- Press [PRT/ENTER] key to confirm the new LO value, then, the scale shows "000.00H" or the HI value set before. Input new HI value.
- Press [PRT/ENTER] key to confirm the new HI value, then, the scale shows "AL---0" or the alarm mode set before. Press [^ | B/L] key to select the new alarm mode.

| | |
|---|-------------------------------|
| 0 | Alarm off |
| 1 | LO range Alarm |
| 2 | OK range Alarm |
| 3 | HI range Alarm |
| 4 | Beyond HI, LO, OK range alarm |

- (2) Review the preset data
When in normal weighing mode, press [PRE SET] key, [HI/LO SHOW] key in turn to review the preset data.

- (3) Clear the preset data
When in normal weighing mode, press [PRE SET] key, [HI/LO SHOW] key in turn to review the preset data. Then, press [MC] key to clear the preset data. Press [UNIT] key to return to normal weighing mode.

(Note: The scale alarms when $d \geq 20e$)

5.4 Quantity HI-LO-OK Alarm

Preset quantity "HI value", "LO value" and "Alarm mode" according to the procedures of item 5.3.

5.5 Accumulation

(1) Weight accumulation

When the load weight is positive and stable, press [M+] key to save the weight. The scale shows accumulated frequency and accumulated weight by turns. Meanwhile, the scale shows "M+" symbol. After unload the weight, the scale can do next accumulation.

The scale can handle up to 50 accumulations. Accumulated data should within 6 digits.

- (2) Review the accumulated weight
When the scale is unloaded in normal weighing mode, press [M+] key to review the accumulated weight.

- (3) Clear the accumulated weight
Press [MC] key to clear the accumulated weight while reviewing the accumulated weight.

- (4) Quantity accumulation
Same operation procedures as weight accumulation.

5.6 Tare

(1) Tare unknown package weight

- Put the package on the scale, press [T] key, the scale shows the tare symbol.
- Put the goods (with package) on the scale, the scale shows the weight of the goods.
- Unload the goods (with package), press [T] key, the scale displays "0". The pre-tare weight is deleted.

(2) Tare known package weight

- When already know the weight of one goods' package, press [PRE TARE] key, the scale shows "00000P", using [^ | B/L] key (input numbers), [PRE SET] key (shift), [PRT/enter] key (confirm the input numbers) to input the weight of package. The scale will show the negative weight of the package.
- Put the goods (with package) on the scale, the scale shows the weight of the goods.
- Unload the goods (with package), press [T] key, the scale displays "0". The pre-tare weight is deleted.

5.7 Pieces Counting

Put the sample on the scale, press [SMPL] key to select sample pieces as 10, 20, 50, 100. Then, press [COUNT] key to enter in the counting mode.

5.8 Print

(1) Print output mode

• Stable print

When set the output mode as stable print, the scale will print current weight or quantity after the load weight is stable.

• Key-press print

When set the output mode as key-press print, the scale can print current weight or quantity by pressing [PRT/ENTER] key after the load weight is stable.

(2) Print format

1: Simple format

TICKET: NO. 0001
N.W: 1.000 kg

2: Counting mode - simple format

TICKET: NO.0001
N.W: 10.000 kg
QTY: 100 PCS

3: Accumulation mode - simple format I

When the scale is in normal weighing mode, press [M+] key, the scale will print:

TICKET: NO.0001
ADD: 01
N.W: 10.000 kg

4: Accumulation mode - simple format II

When the scale is in counting mode, press [M+] key, the scale will print:

TICKET: NO.0001
ADD: 1
N.W: 1.000 kg
QTY: 100 PCS

5: Accumulation mode - simple format III

When the scale is unloaded in normal weighing mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

TICKET: NO. 0001
TOTAL ADD: 03
TOTAL N.W: 1.000 kg

6: Accumulation mode - simple format IV

When the scale is unloaded in counting mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

TICKET: NO. 0001
TOTAL ADD: 03
QTY: 100 PCS

7: Simple RTC format

DATE: 2012/08/19
TIME: 14:20:21

TICKET: NO. 0001

N.W: 1.000 kg

8: Counting mode - Simple RTC format

DATE: 2012/08/19

TIME: 14:20:21

TICKET: NO. 0001

N.W: 1.000 kg

QTY: 100 PCS

9: Accumulation mode - Simple RTC format I

When the scale is in normal weighing mode, press [M+] key, the scale will print:

DATE: 2012/08/19

TIME: 14:20:21

TICKET: NO. 0001

ADD: 01

N.W: 1.000 kg

10: Accumulation mode - Simple RTC format II

When the scale is in counting mode, press [M+] key, the scale will print:

DATE: 2012/08/19

TIME: 14:20:21

TICKET: NO. 0001

ADD: 01

N.W: 1.000 kg

QTY: 50 PCS

11: Accumulation mode - Simple RTC format III

When the scale is unloaded in normal weighing mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

DATE: 2012/08/19

TIME: 14:20:21

TICKET: NO. 0001

TOTAL ADD: 03

TOTAL N.W: 1.000 kg

12: Accumulation mode - Simple RTC format IV

(To select 3 in FUN-08)

When the scale is unloaded in normal weighing mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

DATE: 2012/08/19

001 Time 14:20:21 1.000kg

002 Time 14:20:25 1.000kg

003 Time 14:20:30 1.000kg

TOTAL. 3.000 kg

13: Accumulation mode - Simple RTC format V

When the scale is unloaded in counting mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

DATE: 2012/08/19

TIME: 14:20:21

TICKET: NO. 0001

TOTAL ADD: 01
QTY: 100 PCS

14: Complete format

TICKET: NO. 0001
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg

15: Counting mode - Complete format

TICKET: NO. 0001
G.W: 1.000kg
T.W: 0.000kg
N.W: 1.000kg
QTY: 100 PCS

16: Accumulation mode - Complete format I

When the scale is in normal weighing mode, press [M+] key, the scale will print:

TICKET: NO.0001
ADD: 1
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg

17: Accumulation mode - Complete format II

When the scale is in counting mode, press [M+] key, the scale will print:

TICKET: NO.0001
ADD: 1
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg
QTY: 100 PCS

18: Accumulation mode - Complete format III

When the scale is unloaded in normal weighing mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

TICKET: NO. 0001
TOTAL ADD: 01
TOTAL N.W: 3.000kg

19: Accumulation mode - Complete format IV

When the scale is unloaded in counting mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

TICKET: NO. 0001
TOTAL ADD: 03
QTY: 100 PCS

20: Complete RTC format

DATE: 2012/08/19
TIME: 14:20:21
TICKET: NO. 0001
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg

21: Counting mode - Complete RTC format

DATE: 2012/08/19
TIME: 14:20:21
TICKET: NO. 0001
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg
QTY: 100 PCS

22: Accumulation mode - Complete RTC format I

When the scale is in normal weighing mode, press [M+] key, the scale will print:

DATE: 2012/08/19
TIME: 14:20:21
TICKET: NO. 0001
ADD: 01
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg

23: Accumulation mode - Complete RTC format II

When the scale is in counting mode, press [M+] key, the scale will print:

DATE: 2012/08/19
TIME: 14:20:21
TICKET: NO. 0001
ADD: 01
G.W: 1.000 kg
T.W: 0.000 kg
N.W: 1.000 kg
QTY: 100 PCS

24: Accumulation mode - Complete RTC format III

When the scale is unloaded in normal weighing mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

DATE: 2012/08/19
TIME: 14:20:21
TICKET: No. 0003
TOTAL ADD: 01
TOTAL N.W: 1.000 kg

25: Accumulation mode - Complete RTC format IV

When the scale is unloaded in counting mode, review the accumulated data by pressing [M+] key. Then, press [PRT|ETP] key. The scale will print:

DATE: 2012/08/19
TIME: 14:20:21
TICKET: NO. 0001
TOTAL ADD: 03
QTY: 100 PCS

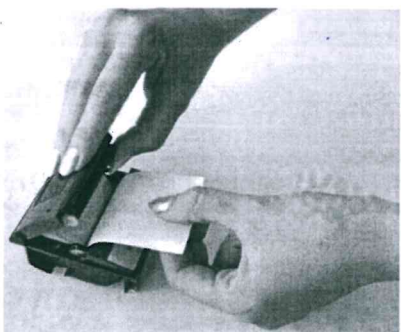
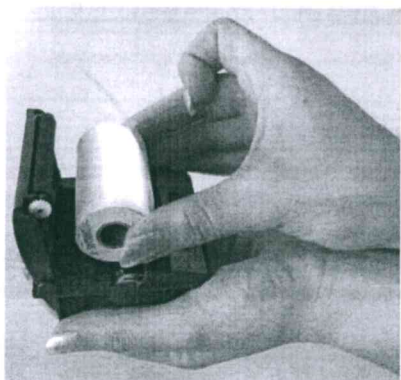
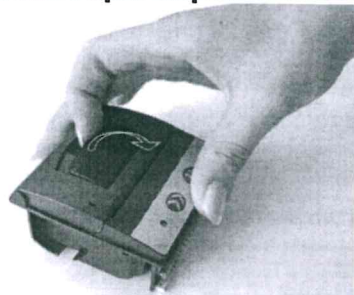
Notes about AWPT print formats:

1. Users can select the weight units. The scale print the selected paper.
2. When select "lb" as weight unit, the scale can print English format only.
3. When select "Hongkong pounds" as weight unit, the scale can print Simple Chinese format only.
4. When the weight is negative or lower than 10d, the scale can not print.
5. Simple Chinese format are available in specific versions.

6. Here are the references of some abbreviation.

| | | | |
|--------------|-------------|------------|----------|
| G.W. | T.W. | N.W. | QTY |
| Gross Weight | Tare Weight | Net Weight | Quantity |

6. Print Paper Replacement Instruction



7. Function setting

Turn on the scale while pressing [PRT/ENTER] key, then, press [M+], [UNIT], [M+], [T] keys in turn. Thus, the scale enters in the function setting mode.

In function setting mode, the following keys act as:

| | | |
|--------|---|--------|
| [UNIT] | + | (Plus) |
|--------|---|--------|

| | |
|-------------|---|
| [PRE SET] | — (Minus) |
| [^ B/L] | Right shift |
| [PRT ETP] | Enter specific function setting item Confirm the setting |

- (1) **FUN-01**
Capacity setting (kg as default weight unit)
- (2) **FUN-02**
Division setting
Options: 0, 1, 2, 5
- (3) **FUN-03**
Decimal point setting
Options: 0, 1, 2, 3, 4, 5 digits after the decimal point
- (4) **FUN-04**
Zero hidden range setting (0 as default)
Options: 0~5d
- (5) **FUN-05**
Filter parameter setting (5 as default)
Options: 3~15
Set the filter parameter can adjust the stable speed. Larger numerical value, higher speed.
- (6) **FUN-06**
Over capacity setting (9 as default)
Options: 1~30d
- (7) **FUN-07**
Print output mode setting (Pr-key as default)
"Pr-Stb": stable output print. The scale starts to print after the load weight is stable. At this moment, press [PRT | ETP] key to print is still available.
"Pr-key": key-press output print. The scale starts to print by pressing keys.
- (8) **FUN-08**
Print format mode setting (1 as default)
"1": Simple print format
"2": Complete print format
"3": Simple accumulation format
- (9) **FUN-09**
Print language setting (En as default)
"En": English
"CH": Simple Chinese
- (10) **FUN-10**
Print with time or not (TM-OFF as default)
"TM-OFF": Without time in printing
"TM-ON 1": With time in printing
"TM-ON 2": With Persian time in printing
- (11) **FUN-11**
Print time setting
"Y-20xx": Year setting. Options: 2000~2099
"MA-xx": Month setting. Options: 1~12
"d-xx": Date setting. Options: 0~31 (The scale can automatically adjust the days in February according to the year)
"Ho-xx": Hour setting. Options: 0~23
"MI-xx": Minute setting. Options: 0~5 in first digit, 0~9 in second digit.
- (12) **FUN-12**
Print blank line setting (3 as default)
Options: 1~8
- (13) **FUN-13**

- Oprint function on or off ("Pt-On" as default)
 "Pt-On": Print function is on
 "Pt-OFF": Print function is off
- (14) **FUN-14** Weight unit "kg" on or off ("kg-ON" as default)
 "kg-ON": kg is on
 "kg-OFF": kg is off
- (15) **FUN-15** Weight unit "g" on or off ("g-ON" as default)
 "g-ON": g is on
 "g-OFF": g is off
- (16) **FUN-16** Weight unit "HK" (Hongkong pounds) on or off ("HK-ON" as default)
 "Lb-ON": Lb is on
 "Lb-OFF": Lb is off
- (17) **FUN-17** Sequence No. on or off in print ("TK-ON" as default)
 "TK-ON": with sequence No. in printing
 "TK-OFF": without sequence No. in printing
- (18) **FUN-18** Dual range on or dual range off ("TK-ON" as default)
 "ON": Dual range
 "OFF": Single range

8. Weighing Clibration

Turn on the scale while pressing [PRT/ENTER] key, press [M+], [COUNT], [M+], [Z] in turn. The scale shows "CAL" and enter in the calibration mode. Here is the function instruction of keys in calibration mode.

| | |
|-------------|-------------------------|
| [UNIT] | + (Plus) |
| [PRE SET] | — (Minus) |
| [^ B/L] | Right shift |
| [PRT ETP] | Confirm |
| [MC] | Clear the settled value |

Set the weight of calibration point by using [UNIT], [PRE SET], [^ | B/L], [PRT | ETP], [MC] keys. When finished, the scale shows the difference value of the load mass weight and 0 digit internal code. If the mass weight is unloaded, the scale shows data far away from "0", press [T] to zero.

Load mass weight corresponding to the set calibration data, press[PRT | ETP] key to confirm.

The scale returns to normal weighing mode after calibration finished.

9. Internal Code Checking

Turn on the scale while pressing [PRT | ETP] key, press [M+], [Z], [M+], [T] in turn, the scale shows the internal code.

10. Error Message & Trouble Shooting

| LCD display appears | Reasons | Solutions |
|---------------------------|---|---|
| ADERR | The scale is unlevel while turns on the scale or the load cell is defective | Ensure the scale be level when turns on or change another load cell |
| Battery Symbol | The battery is in low voltage | Charge the battery |
| "OL" (the scale beeps) | Overload | Lower the load weight |