

IND ICATOR SERIES

Weighing Indicator
USER'S MANUAL



CONTENTS

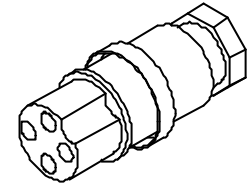
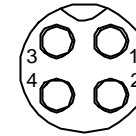
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6.0 ASSEMBLE INSTRUCTION

Load Cell connection instruction:

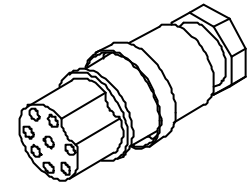
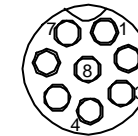
When link with TCS-A (without Acid-lead battery),
Please refer to below connection:

- | | |
|-------------|------|
| 1、S- | 2、S+ |
| 3、 ∇ | 4、A+ |

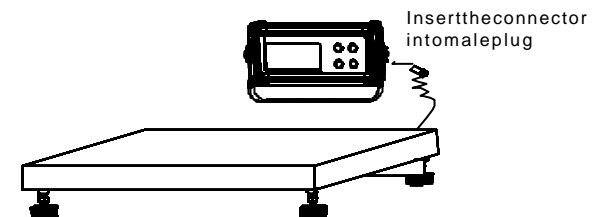


When link with TCS-D (with Acid-lead battery),
Please refer to below connection:

- | | |
|---------------|------|
| 1、S- | 2、S+ |
| 3、 ∇ | 4、A+ |
| 7、 ⏏ | 8、Vp |



Installation:



5.0 ERROR INFORMATION AND SPECIFICATION

Error Message

1. **EEEE** : overlan alarm.
2. **🔋** : The power is not enough, please charge in time. The too low of voltage will lead to fail on turning on the scale.

Max Capacity	Selectable of 6kg, 15kg, 35kg, 75kg, 150kg and 200kg during range 6kg-200kg
Division	1/3000
Response	3-5 seconds
Display	LCD with backlight
Unit	kg/lb/oz/lb:oz
Tare	=Max capacity
Overload Alarm	Alarm when load is over 9e of max capacity
Overload Capacity	Auto-protected when load is over 125% of max
Source	Adaptor--AC220V/DC12V500mA
Consumptions	With backlight: 90mA; without backlight 70mA
Temperature	Storage: -10 — +50 Work: 0 — +40
Humidity	Storage 5%—90% Work: 10%—80% R.H.
Net weight	Aluminum indicator: 720g
Package	Aluminum indicator: 16pcs/ctn Box size: 250x125x59mm Weight: 13.5kg Carton size: 520x260x270mm

Unit Conversion

1 kg	=	1000g
1 lb	=	453.59237g
1 oz	=	28.349523125g

1.0 CAUTIONS AND PREPARATION

CAUTIONS

1. Please clean the display and operation panel with wet towel instead of soaking into water.
2. When the value of the scale is not zero, press **[Zero]**, 0 will come.
3. The provided adaptor should be used when charging.
4. It's prohibited to put scale on the location that over temperature and humidity range.
5. Please don't load on the weight over capacity.

PREPARATION

1. Put the electrical scale on the stable and flat table. Installing the base with indicator and connecting the cables as well.
2. Avoiding to the disturbance from other equipment, please use socket solely.
3. Avoid putting the weight on the scale when turning it on.
4. When weighing, put the load on the center of pan and avoid weighting the objects over capacity.
5. Please warm-up scale for 5 minutes.
6. It's better to calibrate the scale before every using.

2.0 Display and Key:

Display



- Stable indication
- Zero indication
- Battery is weak
- Net:Tare indication
- Hold:Holding indication

Key

- Turn the scale on or off only.
- Send data via RS-232 and combine with hold functions enabled
- Select units/works as a shift key in setting mode.
- Set the display to tare zero or net zero by storing the current weight in the tare memory.

4.8 SETTING OF HOLD TIME LIMIT

1. This function is to set the time limit for which the display is held after the hold function is used. It is only available for hold functions 2 and 3.
2. There are four options "Hti 0", to "Hti 4". Hti 1-4 holds the display for the entered number of seconds x 10. "Hti 0" holds for an infinite time limit.
3. Use the **[Tare/Zero]** key to scroll through the options.
4. Press the **[Unit]** key to confirm the selection and move back to the first parameter or press **[Print/Hold]** to escape.

	trn=1	trn=2	trn=3
Hod = 1	RS-232 is off. Hold is off. [Print/hold] key has no function	Prints continuously. Hold is off. [Print/hold] key has no function.	RS-232 prints when [Print/Hold] is pressed. Hold function is disabled.
Hod = 2	RS-232 is off. Hold occurs automatically when the weight is stable. Hold is released if [Print/Hold] is pressed or time expires as per Hti setting.	Print continuously. Hold occurs automatically when the weight is stable. Hold is released if [Print/Hold] is pressed or time expires as per Hti setting.	RS-232 prints and hold occurs automatically when the weight is stable. [Print/Hold] key is pressed print will occur again. Hold is released if key is pressed a second time expires as per Hti setting.
Hod = 3	RS-232 is off. Hold occurs when the [Print/Hold] key is pressed. Hold is released if [Print/Hold] is pressed again or time expires as per Hti setting.	Print continuously. Hold occurs when the [Print/Hold] key is pressed. Hold is released if [Print/Hold] is pressed again or time expires as per Hti setting.	RS-232 prints and hold occurs when [Print/Hold] is pressed. If [Print/Hold] is pressed a second time print will occur again. Hold is released if [Print/Hold] is pressed again or time expires as per Hti setting.

3. Use the **[Tare/Zero]** key to scroll through the options.
4. Press the **[Unit]** key to confirm the selection and move to the next function for setting the transmission mode for sending the data to RS-232 interface.

4.7 SELECTION OF TRANSMISSION MODE

1. Press the **[Unit]** key to scroll to the seventh function "trn x" which is used to select the transmission mode. "trn x" appears on the screen. See the Hold and printing table below. DEFAULT SET: trn 1
2. There are three options "trn 1", "trn 2" and "trn 3".

trn 1	Nodata output
trn 2	Continuous data output
trn 3	Output when print key is pressed
3. Use the **[Tare/Zero]** key to scroll through the options
4. Press the **[Unit]** key to confirm the selection and move to the next function for setting the Hold function.

4.8 SELECTION OF HOLD FUNCTION

1. Press the **[Unit]** key to scroll to the ninth function "Hod x" which is used to set the Hold function. "Hod x" appears on the screen. See the Hold and printing table below. DEFAULT SET: Hod 1
2. There are three options "Hod 1", "Hod 2" and "Hod 3".

Hod 1	No hold function
Hod 2	Automatic hold function
Hod 3	Manual hold function
3. Use the **[Tare/Zero]** key to scroll through the options.
4. If selection of "Hod 2" or "Hod 3" are made then this will enable function 8.8 SETTING OF HOLD TIME "Hti0".
5. If "Hod 1" is selected pressing the **[Unit]** key will take you to the first parameter "ProFF".

3.0 Operation

1. Switching on the scale

Please place the scale on the table or floor, which must be rigid and not vibrate. And then switch on the scales simply by pressing **[ON/OFF]** key. The display flashes all digits and symbols before counting down to zero. This ensures all LCD segments are working.

2. Zeroing the scale

Ensure that the zero indicator sign comes before every weighing. If it's not, please press the key **[Tare/Zero]** to set a new zero point.

3. TARE THE SCALE

When want to weight the goods on a container, place an empty container on the platform firstly. A value for its weight will be displayed. Then press the **[Tare/Zero]** key to tare the scale. The weight of container is stored as the tare value and the value is subtracted from the display, leaving zero on the display. The indicator "ZERO" will be on.

- A. When the container is removed a negative value will be shown. Press **[Tare/Zero]**, the display is zero and zero and tare indicator will also be on.
- B. Press **[Tare/Zero]** within zeroing range, the zero value will be shown, the indicator "ZERO" will be on and indicator "TARE" will gone.

4. WEIGHING

When the scale is at zero, place an item to be weighed on the platform. The display will show the weight. At the moment, please shift the unit kg/lb/oz/lb:oz by **[Unit]**.

4.0 SETTING OPERATION

The scale can be set as desired by the user to control the operation.

1. Switch off the scale.
2. Hold the **[Tare/Zero]** key and then press the **[On/Off]** momentarily. Release the **[On/Off]** key. After 3 seconds, it enters setting mode, selecting the parameters by pressing **[Unit]**.
3. The user can escape from the parameter setting at any time by pressing the **[Print/Hold]** key.

4.1 AUTOPOWER OFF

1. This is used to select the validity of the auto power off function. The display will show "ProFF" or "Pron" DEFAULT SET: ProFF
2. Press **[Tare/Zero]** key to toggle between "on" and "oFF".
3. If it is set to "on" the power will be turned off after 2 minutes if a key has not been pressed and the scale is at zero. If there is a weight on the scale or the keys have been pressed, the scale will continue to work.

4.2 BACKLIGHT

When it displays "BL X", press **[TARE]** to set the backlight. Select 1 to turn off the backlight. And select 2 to activate the function. And select 3 to set the auto backlight function (this means that when there is no load on the pan, backlight is inactive and when weight is loaded, backlight is active. And the load was moved from the pan, backlight keeps on 15 seconds). And then press **[Unit]** to confirm the selection and turn to next item.

4.3 ENABLING OF UNITS

1. Press the **[Unit]** key to scroll to the third function "On Kg" which is for setting the unit to be enabled and disabled.
2. Each weighing unit can be enabled or disabled so that the enabled units

can be selected during the operation of the scale by the user.

3. Use the **[Tare/Zero]** key to toggle between on and off and the **[Unit]** key to move to the next units. Kg is default unit.

4.4 COMMUNICATION ADDRESS

1. Press the **[Unit]** key to scroll to the fourth function "Add1" which is for setting the ID for the scale RS-232 results output.
2. This function is used to set the communication address which is sent via RS232 as an ID code. There are 26 options to select from "Add 1" to "Add 25". Set "Add0" for no address.
2. Use the **[Tare/Zero]** key to scroll through the options.
3. Press the **[Unit]** key to confirm the selection and move to the next function for setting the Baud rate for sending the data via RS-232 interface.

4.5 SELECTION OF BPS

1. Press the **[Unit]** key to scroll to the fifth function "BPS" which is for to select the BPS or baud rate per second to set the speed of sending data to RS-232 interface. DEFAULT SET: b 9600
2. There are three options "b 2400", "b 9600" and "b 4800"
3. Use the **[Tare/Zero]** key to scroll through the options.
4. Press the **[Unit]** key to confirm the selection and move to the next function for setting the parity for sending the data to RS-232 interface

4.6 SELECTION OF BIT RATE AND PARITY

1. Press the **[Unit]** key to scroll to the sixth function "Par x" which is used to select the Bit rate and parity used for sending data to RS-232 interface. "Par x" appears on the screen. DEFAULT SET: PAR1
2. There are three options "PAR 1", "PAR 2" and "PAR 3".
 - PAR 1 - 8 bits no parity
 - PAR 2 - 7 bit even parity
 - PAR 3 - 7 bits odd parity