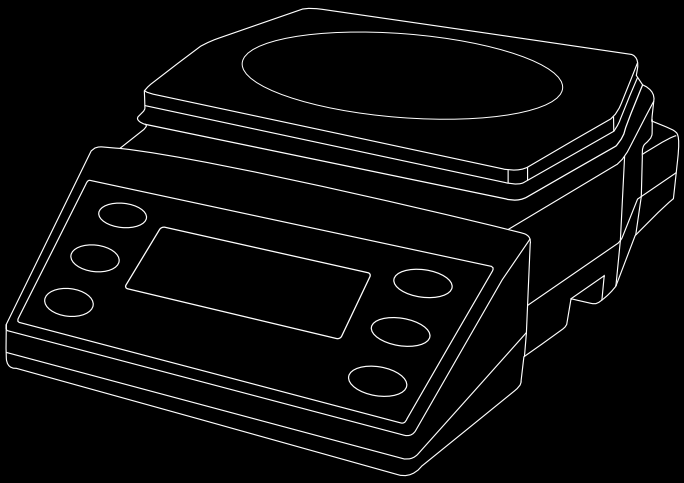
SCALE®

TBSERIES™



USER MANUAL

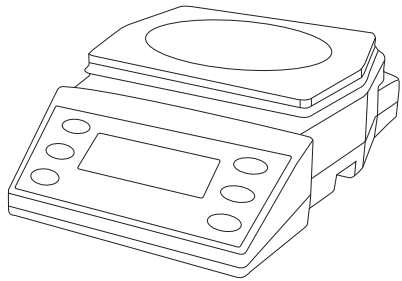
TBSERIES

TB600

Precision Genauigkeit/Précision	Capacity Kapazität/Capacité
0.01 g	600 g
0.00035 oz	11lb, 5.16oz
0.0064 dwt	385.8 dwt

TB11000

Precision Genauigkeit/Précision	Capacity Kapazität/Capacité
0.5 g	11000 g
0.02 oz	24lb 4oz
0.32dwt	7073.2dwt



ENGLISH

Thank you for purchasing the J-Scale® TB SERIES digital scale. Please read all operating instructions carefully before use. This electronic scale is a precision instrument. With normal care and proper treatment, it will provide years of reliable service. For further information or troubleshooting, please visit our website at **www.jenningsscale.com**

Never load the scale with more than the maximum capacity. Although the J-Scale® TB SERIES is designed to be extremely durable with extra overload protection built into the case, overloading will permanently damage it! Avoid any exposure to extreme heat or cold, your scale works better when operated at normal room temperature. Keep your scale in a clean environment. Dust, dirt, moisture, vibration, air currents and/or a close proximity to other electronic equipment can all cause an adverse effect on the reliability and accuracy of your scale. Handle with care. Gently apply all items to be weighed onto tray top. Avoid shaking, dropping or otherwise shocking the scale. Scales are delicate instruments and unlike cellular phones, scales have delicate sensors that determine how much an item weighs. If you drop or shock your scale, these sensors "feel" the shock and are sometimes destroyed. This happens with all digital scales. We design our scales to be as resistant to shock or drops as possible, however there is no way for us to protect 100% against load cell or sensor damage. Failure to follow these instructions will void your warranty.

Always allow the scale to acclimate to normal room temperature for at least one hour before use. Give your scale sufficient warm up time. Usually 30-60 seconds before calibration to give the internal components a chance to stabilize.

PRECAUTIONS BEFORE USING THE BALANCE

1. Matter charged with static electricity can affect accuracy. Discharge all static electricity. For example, one method is to use Static-Guard spray, and spray it on both sides of the weighing platform.
2. The balance must be in placed an exact horizontal position in order to achieve accurate measurement results.
3. Don't put any object on the platform before powering on.
4. When possible please allow the scale to warm up for several minutes before operation.
5. Items should always be placed on the center of the platform when being weighed.
6. For optimum accuracy, recalibrate before each use.

POWER SUPPLY

AC Adapter

The scale can be powered by an AC adapter- DC12V 150mA. Please only use the correct AC adapter for this scale – an incorrect AC adapter can cause damage to the scale and possible fire or injury. Use of an incorrect AC adapter will also void your warranty.

Batteries

Low Batteries & bad battery connections are the #1 cause of scale malfunction and inaccuracy! We test all of our scale returns from consumers and 60% of them are battery related problems. This sounds silly but it's true! A scale will perform poorly when it has low batteries. Use good quality batteries & replace them often (Remove the batteries if you plan to store the scale for longer then 14 days). We include good quality batteries with all of our scales but they can run low in storage. If your scale simply won't turn on while on battery power, it is often caused by loose battery connections.

Battery installation

a) Press and lift open the battery cover located at the bottom of the unit.
b) Insert the batteries and make sure the polarity is correct (+) and (-).
c) Close the battery cover until it clicks shut.

OPERATION INSTRUCTIONS

Weighing Procedures

1.Press **[⏻]** to turn on the scale. When the power is turned on, the scale will countdown for a few seconds and "0.00" will appear on the display.
2.Press **[UNIT]** to select a weighing unit. Once the unit has been selected, the selected unit will be displayed next to the weight value

TARE

Tare can be used for eliminating the weight value of an empty container. Place an empty container on the scale and press **[TARE]**. Then place the items to be weighed in the container. NOTE: When all weight is removed from the weighing tray, the tared value of a container will be displayed as a negative number. Press **[TARE]** again to return the scale to zero.

COUNTING MODE

1. Press **[PCS]** to enter counting mode.
2. Press **[UNIT]** to toggle the sample size 10, 20, 50 or 100.
3. Place a sample amount (10pcs, 20pcs, 50pcs or 100pcs) on the platform and press **[PCS]** to confirm.
4. You can now place the items that you want counted onto the tray and the total number of items will show on the display.
5. Press the **[UNIT]** key to exit the counting mode and return to normal weighing.

PRINTING

To print the displayed data press **[PRINT]**.

Error Messages

Err-O: Overload
Err-Z: Zero track range exceeded
Err-S: The scale is on an unstable surface
Err-C: Incorrect calibration weight
Err-P: Sample weight insufficient

CALIBRATION

How to calibrate: **you must have an accurate 500g weight for the TB600 or a 10kg weight for the TB11000 in order to calibrate**

Calibration may be required when the scale is first set up for use, or if the scale is moved to a different altitude or new location. This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations can occur.

1. Turn the scale off and place on a flat, stable surface.
2. From the off setting press & hold the **[ZERO]** button and turn on the scale . Release **[ZERO]** when the display shows "CAL" and the AD value (a series of random numbers).
3. Press **[UNIT]** , the display will flash the correct calibration weight.
4. Gently place the required calibration weight on the platform and wait 3 seconds.
5. Calibration is complete when the display stops flashing. Remove the weight and continue weighing as normal.

SCALE SETTINGS

Auto-Off & Backlight Setting Mode

To enter the auto-off and backlight setting mode follow these steps:

1. From the off setting press & hold the **[PCS]** button and turn on the scale. Release **[PCS]** when the display shows "A. ON" or "A.OFF".
2. Press **[ZERO]** to activate "A.ON" or deactivate "A.OFF" the Auto-Off setting.
3. Press **[UNIT]** to enter the backlight setting mode. The display will show "L.ON" , "L.OFF" or "L.AUTO".
4. Press **[ZERO]** to activate or deactivate the backlight settings: "L.ON" = backlight constant, "L.OFF" = backlight disabled, "L.AUTO" = backlight is off when scale not in use.
5. Press **[PCS]** to confirm your settings. The display will show "------" and return to normal weighing mode.

Unit Setting Mode

There are 21 weighing modes which can be easily enabled or disabled for ease of use, to do this:

1. From the off setting press & hold the **[UNIT]** button and turn on the scale. Release **[UNIT]** when the display shows " ON g".
2. Press **[UNIT]** to toggle the weighing units.
3. Press **[ZERO]** to activate "ON" or deactivate "OFF" the selected unit.
4. Press **[PCS]** to confirm your settings. The display will show "------" and return to normal weighing mode.

RS-232 Setting Mode

To enter the RS-232 setting mode follow these steps:

1. From the off setting press & hold the **[PRINT]** button and turn on the scale. Release **[PRINT]** when the display shows the current baud rate " b 1200, b, 2400, b 4800, or b 9600".
2. Press **[ZERO]** to toggle the setting.
3. Press **[UNIT]** to enter the Parity setting mode . The display will show "P none", "P Odd" or "P EVEN".
4. Press **[ZERO]** to toggle the settings: " P none" = 8 data bits without parity , "P Odd" = 7 data bits with odd parity, "P EVEN" = 7 data bits with even parity.
5. Press **[PCS]** to confirm your settings. The display will show "------" and return to normal weighing mode.

Units

- **g** gram
- **oz** ounce
- **lb** pound
- **dwt** penny weight
- **ozt** troy ounce
- **ct** carat
- **tl.T** tael (TWN)
- **tl.H** tael (Hong Kong)
- **tl.J** jewelry tael (Hong Kong)
- **gn** grain (UK)
- **dr** dram
- **mm** momme (JPN)
- **tola** tola (India)
- **gsm** grams per square meter (g/m^2)
- **TAR** tola/anna/ratti (India)
- **TMR** tola/masha/ratti(India)
- **1/8** 1/8 ounce
- **1/4** 1/4 ounce
- **viss** (Burma)
- **tical** (Thailand)
- **kg** kilogram

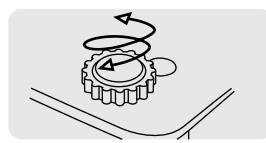
Display Symbols

- →0← Scale is in ZERO mode.
- →T← Scale is in TARE mode.
- Low Battery.
- The display reading is STABLE.

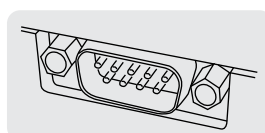
SPECIFICATIONS

Capacity	TB600: 600g x 0.01g / TB11000: 11000g x 0.5g
Units	g, oz, lb, dwt, ozt, ct, tl.T, tl.H, tl.J, gn, dr, MM, Tola, gsm, TAR, TMR, 1/4oz, 1/8oz,Viss, Tical,kg
Auto-OFF	2 min.
Scale dimension	290mm x 200mm x 75mm
Tray dimension	TB600: 135x120mm / TB11000: 165mm x 190mm
Operating temperature	Optimum 10-40°C (50-104°F)
Power Source	6 x AA batteries or AC power adapter - DC12V 150mA
Tare range	Up to scales maximum capacity
Zero range	± 5% of max. capacity

Adjustable Feet
on bottom of each corner of the scale



RS-232 data transmission port



BACKLIT AUTO OFF STAINLESS STEEL TRAY 2020

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