

Pro-Tournament Scales

SB 45.4 Remote Display



3.59

TOURNAMENTSCALES.COM

Operator's Manual

Congratulations.....

The SB-45.4 remote display is designed to enhance your tournament experience. It is a well known fact that anglers prefer tournaments that have the feel and look of a professional tournament. Displaying the weight where the crowd can witness removes the "element of doubt" during the weigh in process.

The large 4.5 inch Liquid Crystal Digits can be seen in direct sunlight and will not fade or wash out in bright sunlight. The large digits can be seen by anyone in the crowd and prevents anglers from gathering around the scale during the weigh in process. A backlight is included that enables the remote to be seen at night. The backlight can be programmed to be on or off by the user to conserve battery power.

Multiple remote displays can be used with all of Pro-Tournament Scale systems further enhancing the professional look of your tournament. An Optional tripod with a special mounting bracket can be added to the SB-45.4 remote display to position the remote above the crowds' heads.

Our units with the 9-volt battery holder will operate over 20 hours on a standard 9-volt alkaline battery.

For more exciting products and information from Pro-Tournament Scales visit our web site at:

www.tournamentcales.com

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SB-45.4 Specifications and Features

Indicator Enclosure:	Water/dust resistant case made from extruded aluminum Dimensions: 6.00" H x 15.5" W x 3.25" D
Digital Display:	LCD, 4 numerals, 4.5 inch high digits; white LED backlight. Clear antiglare plastic viewing window, 17.0" x 5.250"
Power:	12VDC (Remote Display is powered from scale indicator through the 7-pin connector.)
Display Capacity:	99.99 x .01 / 999.9 x .1 / 9999 x 1
Communication:	1200 baud, 8 bits, no parity
Backlight:	White solid-state LED, user programmable

Data Transmission Specifications

The SB-45.4 is designed to accept an RS-232 data string. The data string should be terminated by a carriage return and line feed command. The SB-45.4 will extract the numerical data from the string and display the number with a decimal point, if needed.

After a period of three seconds without an update the display will show "----". This indicates that no data is being received.

The unit that is transmitting data should be configured to send continuous updates, so the information on the remote display changes with the unit sending data.

Powering the SB-45.4

The SB-45.4 Remote Displays are configured with several different methods of power input. One method is to supply power through the 7-pin connector located on the end of the enclosure. A second method is to install a 9-volt alkaline battery in the end cap of select models equipped with the battery holder.

A standard alkaline 9-volt battery will power the display for over 20 hours with the backlight turned off. The run time is reduced to 6 hours when equipped with the radio option or when using the backlight. (See the section on "backlight enable" (page 4)) to enable or disable the backlight feature.)



9-volt battery option

Installation Guide

If your SB-45.4 was purchased with a tripod mount:

The tripod bracket bolts to the bottom of the display. Check the bolts periodically to insure they are tight and have not become loose.

When connecting the 7-pin cable to the indicator, tighten the connector lock ring to insure a weather tight seal of the connector pins.

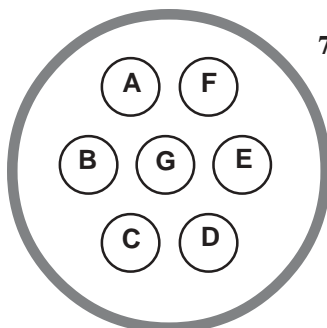
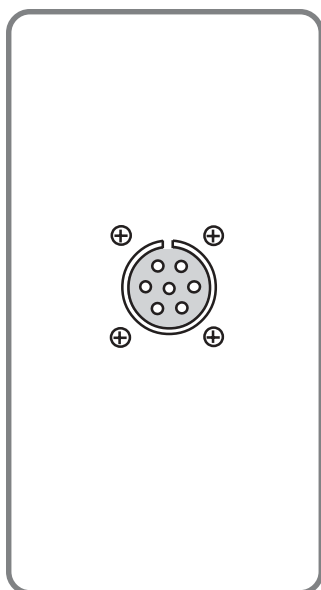
After the remote display is securely mounted, route the cable to the scale indicator and connect to the remote print/display port located on the indicator. If equipped with wireless option, there will be no connector or cable.

If using the non-radio remote with the Tournament Scale Indicator, the indicator must have the AC power pack plugged in, or an external 12-volt DC must be supplied to the indicator. Tournament Scales with an internal battery do not provide enough voltage to power the remote display.

On remote displays with the 9-volt battery option, install the battery to power up the remote display and remove the battery to power down the display.

Wiring Diagram

Remote displays with the wireless radio option are not equipped with the 7-pin connector



7-Pin Connector

Wire side of cable connector

A - (Green) RS-232 Data
B -
C -
D -
E - (Red) 12 Volts
F -
G - (Black) Ground

Backlight Enable

The backlight of the SB-45.4 can be programmed by the user to remain on (low light applications) or be turned off (conserve battery power).

To program the backlight:

1. Turn on the scale and place a weight on the scale between 1.00 and 1.99 lbs. A water bottle or soft drink is normally in this range. *(The remote must be powered off until step 4)*
2. Press the zero button on the scale and the scale will read zero weight.
3. Remove the weight from the scale and the reading will be -1.00 to -1.99.
4. Apply power to the SB-45.4 remote by inserting battery or connecting the 7-pin connector cable.
5. The remote will show the software version and then count down to zero.
6. The display will then display either "**On**" or "**OFF**" indicating the current status of the backlight control circuit.
7. To toggle the backlight setting, remove and reapply power to the remote with a negative weight on the scale between -1.00 and -1.99.
8. Once programmed, the setting will be retained in permanent memory until re-programmed.

Optional Tri-Pod

The tripod mount is designed to easily bolt to the enclosure of the SB-45.4. The bolts should be checked periodically to insure that they are snug and have not loosened. The storage cases for the SB-45.4 from Pro-Tournament Scales have been designed so that the mount may be left on for easy setup and breakdown at the tournaments.



Front View



Rear View

Operation

When power is applied to the SB-45.4 the remote will display will display the software version and perform a screen test by counting down from zero.

1.40

This is the software version and will vary depending on version of your remote

0000

System will count down to 1 on start up

9999

8888

7777

6666

5555

4444

3333

2222

1111

0.00

At this point the remote will display the value shown on the scale indicator

(All dashes indicate no signal being received.)

Note: The remote display is designed to read 0.00 anytime the weight on the scale transmits a negative weight value.

UNITED STATES

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant of Part 15 of the FCC Rules. 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 radiates radio frequency energy and, if not installed and used in accordance with 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.

CANADA

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.



CAUTION

Risk of electrical shock. Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

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