

## Bluetooth Communication

Once the scale has been paired with a host device, a measurement result will be sent as a text message to the host device by using either HID or SPP profile. The scale will display **Good** if the data has been sent to the host device successfully, or **FAIL** if not.

A text message "OK" has to be received by the scale from the host device when using SPP profile. No acknowledgement is required when using HID profile.

The format of the text message is "WTxx:[SP]yyy.y[SP]kg[CR][NL]", "WTxx:[SP]yyy.y[SP]lb[CR][NL]" and "WTxx:[SP]yy[SP]st[SP]yy.y[SP]lb[CR][NL]". xx is "01" for User1 and "02" for User2, etc. yyy.y is a decimal number. The front zeros are replaced by spaces. [SP] is a space. [CR] and [NL] are ASCII codes for carriage return and new line.

Examples:

KG Message	14 ASCII Codes
WT01: 129.0 kg	WT01:[SP]129.0[SP]kg[CR][NL]
WT02: 29.0 kg	WT02:[SP][SP]29.0[SP]kg[CR][NL]
WT03: 9.0 kg	WT03:[SP][SP][SP]9.0[SP]kg[CR][NL]

LB Message	14 ASCII Codes
WT01: 129.0 lb	WT01:[SP]129.0[SP]lb[CR][NL]
WT02: 29.0 lb	WT02:[SP][SP]29.0[SP]lb[CR][NL]
WT03: 9.0 lb	WT03:[SP][SP][SP]9.0[SP]lb[CR][NL]

ST Message	21 ASCII Codes
WT01: 12 st 15.0 lb	WT01:[SP]12[SP]st[SP]15.0[SP]lb[CR][NL]
WT02: 2 st 0.0 lb	WT02:[SP][SP]2[SP]st[SP][SP]0.0[SP]lb[CR][NL]
WT03: 0 st 5.0 lb	WT03:[SP][SP][SP]0[SP]st[SP][SP]5.0[SP]lb[CR][NL]

# BS-801BT USER GUIDE

## Digital Bathroom Scale

Using Bluetooth Wireless Technology



## Bluetooth Configuration

When the scale is off, press the button at the bottom to enter the Configuration. Use a Bluetooth-enabled host device (iPhone, Android device or PC, etc.) to search for "Scale BS-801BT" and pair with it. The PIN is "0000". No pin is required if your host device supports Simple Secure Pairing (SSP) mode. The scale can be paired with more than one host device and each host device can have more than one user assigned to it.

For example, if the scale has been paired with an iPhone for one user and later on an Android device for two users, then the list of host devices will include two devices, the iPhone is the first (at the top of list) for User1 and the Android device is the second (at the bottom of the list) for User2 and User3.

When taking measurements, User1 is the first person to step on the scale to turn it on. His measurement result will be sent to the iPhone. User2 is the second person to step on the scale while it is still on after User1 and his result will be sent to the Android device. User3 is the third person to step on the scale while it is still on after User2 and his result will be sent to the Android device as well.

Alternatively, User2 can tap on the scale with one foot at any time (even when the scale is off) until it displays "-02-" and then step on it to take his measurement. It is the same for User3 to

Bluetooth has been turned on and is ready for pairing operation. The total number of host devices that have been paired with the scale so far are shown on the right. Press the button once to go to the next menu item. Press the button for 3 sec to turn off the scale. The scale also turns off automatically after being idle

The scale appears as an input device when searching on a host device. Please only select this mode when pairing with iPhone, iPod or iPad.

The scale appears as an undefined device. It should be used for pairing with a PC or Android device, etc. You can change it by pressing the button for 3 sec.

Just Works - This SSP mode does not require any action from users during a pairing process. Some Android devices may not be able to receive data even after pairing in this mode. If this happens, try using the Display Device pairing mode.

Display Device - Press the button on the scale during the pairing process to confirm that PIN displayed on the scale matches that shown on the host device.

HID Profile - The next paired host device will receive data as if the data was coming from a Bluetooth wireless keyboard.

SPP Profile - The next paired host device will receive data from a virtual Bluetooth COM port. it should send back "OK" after receiving the data.

Number of users that will be assigned to the next paired host device. Default is one user for each host device. Press the button for 3 sec to increase the number.

Clear - Press the button for 3 sec to delete all saved Bluetooth addresses of previously paired host devices (max 16).

## Bluetooth Settings

Once the scale has been paired with one or more host devices, You can go to the Settings to do the following changes for each host device: 1. find out the index for its first user, 2. check its Bluetooth address, 3. switch between HID and SPP profiles, 4. change the number of users assigned to the host device, 5. move its position in the list of host devices to the first or last.

To enter the Settings while the scale is off, press the button for 3 sec until the scale displays "-01-". The scale will enter the Configuration first and then change to the Settings if the button is still not released after 3 sec. Once in the Settings, each button press will move the menu item to the next one for the same host device. Once reaching the last menu item for a host device, it will move to the first menu item for the next host device.

For example, after the scale has been paired with a PC for 2 users using SPP profile and later on paired with an Android device for one user using SPP profile, User1 and User2's measurement results will be sent to the PC by using SPP profile and User3's will be sent to the Android device by using SPP profile. The menu will be "-01-">"Addr">"3:SPP">"4:P02">"5:bot" for the PC and "-03-">"Addr">"3:SPP">"4:P01">"5:top" for the Android device.

To have the measurement result sent to the PC by using HID profile, go to "-01-" > "Addr" > "3:SPP", then press the button for 3 sec to change it to "3:Hid". Since switching between HID and SPP also resets the number of users to one, you will have to go to "4:P01" and then press the button for 3 sec to increase it back to "4:P02".

To move the PC to the bottom position or move the Android device to the first position in the list of all host devices, go to "-01-" > "Addr" > "3:SPP" > "4:P02" > "5:bot" and then press the button for 3 sec to make the PC the last host device. Alternatively, go to "-03-" > "Addr" > "3:SPP" > "4:P01" > "5:top" and then press the button for 3 sec to make the Android device the first host device. From now on, User1's measurement result will be sent to the Android device and User2 and User3's will be sent to the PC.

Initial display when entering the Settings. Also the index for the first user assigned to the first host device. Press the button once to go to the next menu item. Press the button for 3 sec to turn off the scale. The scale also turns off automatically after being idle for 60 sec.

Press the button for 3 sec to display the Bluetooth address of the host device.

Measurement result will be sent to the host device by using HID profile.

Measurement result will be sent to the host device by using SPP profile.

Number of users assigned to the host device. It is will be reset to one by switching between HID and SPP. Pressing the button for 3 sec to increase it.

Make the host device to be the last in the list of all paired host devices.

Make the host device to be the first in the list of all paired host devices so that the first user assigned to it will be User1.