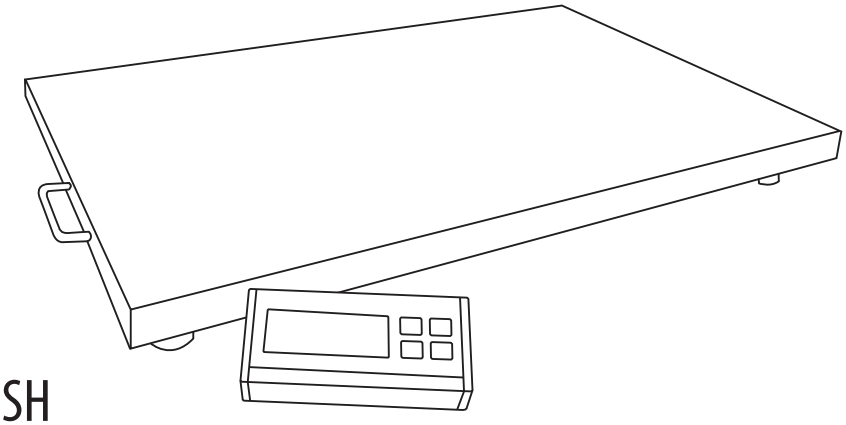
# VHD-2



ENGLISH

**Capacity:**
300kg x 0.1kg
660 lb x 0.2 lb
10582 oz x 5 oz

Thank you for purchasing the My Weigh® VHD2™ heavy duty scale. This scale is designed to provide years of accurate weighing. Please read this entire manual before use. If you have any questions about your scale or have troubleshooting concerns, please visit our website at **www.MyWeigh.com.**

## PRECAUTIONS

- The scales should not be placed in a location that will reduce the accuracy.
- Avoid extremes of temperature. Do not place the scale in direct sunlight or near air conditioning vents.
- Avoid unsuitable surfaces. The table or floor should be rigid and free from vibration.
- Avoid unstable power sources. Do not use the scale near large users of electricity such as welding equipment or large motors.
- Do not place the scale near vibrating machinery.
- Avoid high humidity that might cause condensation.
- Avoid direct contact with water.
- Do not spray or immerse the scales in water.
- Avoid air movement such as from fans or opening doors.
- Do not place the scale near open windows or air-conditioning vents.
- Keep the scales clean. Do not stack material on the scales when they are not in use.

## POWER SUPPLY

The My Weigh® VHD2™ scale was designed to run with DC5V 600mA adaptor or optional 4x AA batteries. The AC adaptor plugs into the socket on the rear of the scales weighing indicator. If you want to use batteries, please install them in the battery compartment on the underside of the base of the scale.

### Battery Installation

For battery installation, turn over the scale, you'll see the battery compartment on the underside of the base of the scale , lift and open the battery cover, remove and/or install the batteries. Be sure that the batteries are installed correctly following the polarity indicators in the battery compartment. Reinstall the battery cover.

## OPERATION INSTRUCTIONS

Only operate the scale on a flat, level surface that is stable and durable enough to support the scale and the items being placed on the scale. Either place the remote display box together with the scale on its surface or mount the display box on a wall at a suitable height with the included wall mounting kit.

Press the ⏻ key to turn on the scale. The display will show the software revision number and then flash all the digits and symbols before counting down to zero. This ensures all LCD segments are working. The last active weighing unit will be displayed. The scale is now ready for use. To begin weighing, follow these steps:

1. Press and release the ⏻ key, the scale is now set at its zero point. If you press and hold the key, then the scale will be turned off.
2. Press the **[M]** key to change the weighing unit between kg , lb, oz, lb.oz.
3. Press the **[T]** key to tare the scale. The weight that was displayed is stored as the tare value. This value is subtracted from the display, leaving zero on the display.
4. Press **[H/P]** to send data via USB and combines with Hold functions, if enabled.

## ZERO/TARE

- If the scale is less than 2% of the maximum capacity, pressing **[T]** will zero the scale. However, if the weight on the scale is more than 2%, pressing **[T]** will tare the scale.
- Press the **[T]** key to tare the scale. The weight that was displayed is stored as the tare value. This value is subtracted from the display, leaving zero on the display. The indicator →T will be on.

## CALIBRATION

**Calibration is only for ADVANCED USERS or scale technicians and should only be performed if absolutely necessary.**

1. While in the normal weighing mode, press and hold the **[T]** key for 4 seconds. The display will show "CAL" along with the last selected unit. The unit can be changed by using the **[M]** key to calibrate in kg or lb.
2. Press the **[H/P]** key. The display will show "L xx" where xx is the Calibration weight which is user-selectable.
3. Press the **[M]** key to confirm the calibration weight. The digit stops flashing.

Note: If the selected mass is less than 10% of the capacity of the scale, an error message "CALEr" will be displayed and the scale will return to zero. Repeat the process correctly.

4. Place the correct calibration weight as selected by the user at the centre of the pan.
5. Press the **[M]**. The display will return to weighing mode.
6. Remove the weight. Verify the scale is calibrated correctly. Repeat the process, if necessary.

Note: If the mass loaded is more than ±20% of the factory calibration reference then an error message "CALEr" will be displayed and the scale will return to weighing without calibration being saved. Repeat the process correctly.

## USER PARAMETERS

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

1. Switch off the scale.
2. Hold the **[T]** key and then press the ⏻ key momentarily. Release the **[T]** key.
3. The display shows the first parameter - "auto power off".
4. To exit the parameter setting at any time, press the **[H/P]** key.
5. To scroll through the user parameters, press the **[M]** key (which will advance to the next parameter).
6. To return to normal weighing, turn the scale off and back to on again or press the **[H/P]** key.

## AUTO POWER OFF

Set the first parameter to "auto power off". The display will show "**Pr oFF**" (DEFAULT SET).
Press **[T]** to toggle between "**Pr on**" and "**Pr oFF**".

1. Pr on : Enables the Auto Power Off function. The power will turn off after 2minutes if
2. Pr oFF : Disables the Auto Power Off
4. Press the **[M]** key to move to the next parameter.
5. To exit the parameter setting press the **[H/P]** key.

## BACKLIGHT SETTING

The second parameter to set the backlight function. Display will show "bL 3" (DEFAULT SET).

1. bL 1 : Off- backlight is disabled
2. bL 2 : On- backlight is constant
3. bL 3 : Automatic- backlight will turn on when a weight is placed on the platform.

4.Press the **[M]** key to move to the next parameter.
5. To exit the parameter setting press the **[H/P]** key.

## ENABLING OF UNITS

The third parameter is to enable or disable the weighing units so that the user can select the enabled units during the weighing operation.
The display will show "**on kg**" (DEFAULT SET)
1. on kg : Enables the unit
2. off kg : Disables the unit
3. Press the **[M]** key to confirm the selection and move to the next unit which is **[lb]**.
4. After all units are set, press the **[M]** key to move to the next parameter.
5. To exit the parameter setting press the **[H/P]** key.

## COMMUNICATION ADDRESS

The fourth parameter is for setting the ID for the USB results output. Display will show "Add 0" (DEFAULT SET)
This parameter sets the communication address which is sent via USB as an ID code. There are 26 options to select from "Add 0" to "Add 25". Set "Add 0" for no address. The numbers relate to the alphabet for example 1=A, 2=B to 25=Y.

## BAUD RATE SELECTION

The fifth parameter is to select the baud rate per second which is the speed of sending data to USB interface. The display will show "b 9600" (DEFAULT SET) There are three options: "b 2400", "b 4800", "b 9600".

## BIT RATE AND PARITY SELECTION

The sixth parameter is to select the bit rate and parity used for sending data to USB interface. Display will show "PAr 1" (DEFAULT SET)
1. PAr 1 : 8 bits no parity
2. PAr 2 : 7 bits even parity
3. PAr 3 : 7 bits odd parity

## TRANSMISSION MODE SELECTION

The seventh parameter is to select the transmission mode. The display will show "trn 1" (DEFAULT SET). See the HOLD AND PRINTING TABLE.
1.trn 1 : No data output
2.trn 2 : Continuous data output
3.trn 3 : Normal output when the "H/P" key is pressed.

## HOLD TIME LIMIT SETTING

This parameter is to set the time limit by which the display is held after the hold function is used. It is applicable if the hold function is set to "Hod 2" or "Hod 3".
Hti 0 : Holds the display for an infinite time limit
2.Hti 1 : Holds the display for 15 (1 x 15) seconds
3.Hti 2 : Holds the display for 30 (2 x 15) seconds
4.Hti 3 : Holds the display for 45 (3 x 15) seconds
5.Hti 4 : Holds the display for 60 (4 x 15) seconds
Press the **[M]** key to confirm the selection and move back to the first parameter or press **[H/P]** to exit the parameter setting.

The eighth parameter is to set the Hold function. The display will show "Hod 3" (DEFAULT SET). See the HOLD AND PRINTING TABLE.
1.Hod 1 : No hold function
2.Hod 2 : Automatic hold function
3.Hod 3 : Manual hold function
If selection of "Hod 2" or "Hod 3" is made then it will lead to SETTING OF HOLD TIME LIMIT (see section 13.1.9). The display will show "Hold" above the weight during operation. If "Hod 1" is selected, pressing the **[M]** key will take you back to the first parameter on Auto Power Off. If you want to return to weighing, press the **[H/P]** key.

## HOLD AND PRINTING TABLE

| | TRN 1 | TRN 2 | TRN3 |
|---|---|---|---|
| **HOD 1** | USB communication is off.<br>Hold is off.<br>"H/P" key has no function. | USB prints continuously.<br>Hold is off.<br>"H/P" key has no function. | USB prints when "H/P" is pressed.<br>Hold function is disabled. |
| **HOD 2** | USB communication is off. Hold occurs automatically when the weight is stable. Hold is released if "H/P" is pressed or time expires as per Hti setting. | USB print continuously. Hold occurs automatically when the weight is stable. Hold is released if "H/P" is pressed or time expires as per Hti setting. | USB prints and hold occurs automatically when the weight is stable. "H/P" key is pressed print will occur again. Hold function is released if the key is pressed again or time expires as per Hti setting. |
| **HOD 3** | USB communication is off Hold occurs when the "H/P" key is pressed. Hold is released if "H/P" is pressed again or time expires as per Hti setting. | USB print continuously. Hold occurs when the "H/P" key is pressed. Hold is released if "H/P" is pressed again or time expires as per Hti setting. | USB prints and the hold occurs when "H/P" is pressed. If "H/P" is pressed a second time print will occur again. Hold is released if "H/P" is pressed again or time expires as per Hti setting. |

## TECHNICAL PARAMETERS

The technical parameters allow adjusting of the scale for accuracy and speed. See the below for the complete list of parameters.

1. Switch off the scale.
2. Hold the **[M]** key and then press ⏻ momentarily. Release the **[M]** key. The display shows the first technical parameter to set the filter "**FiL x**".
3. To exit the parameter setting at any time, press the **[H/P]** key.
4. To scroll through the technical parameters, press the **[M]** key (which will advance to the next parameter).
5. To return to normal weighing, turn the scale off and back to on again or press the **[H/P]** key.

## FILTER

This parameter is for setting the speed of the display filter. For poor environments the filter should be set at its slowest to minimise external influences on the scale. For weighing small samples or gradual filling, the filter should be set at a faster setting.

Press **[T]** to scroll through the options. The display will show "**FiL 1**" to "**FiL 3**". If it is set to "**FiL 1**" then the display is at its slowest setting and at "**FiL 3**" the display is in its fastest setting.

## ZERO TRACKING

This parameter is for setting the range of the zero tracking. Zero tracking will aid the scale to hold or return to zero and should be increased if large weights are left on the scale or if the temperature is not consistent.

Press **[T]** to scroll through the settings. The display will show "**ZEo 1**" to "**ZEo 8**". If it is set to "**ZEo 1**" the zero tracking is at its smallest range and "**ZEo 8**" the highest

## STABILIZATION RANGE

This parameter is for setting the range of the stability indicator. This is used to determine when the scale will print automatically as well as indicate that the weight is stable.

Press **[T]** to scroll through the settings. The display will show "**StA 1**" to "**StA 8**". If it is set to "**StA 8**" then the stability is at its fastest and "**StA 1**" the slowest.

## STABILIZATION TRACKING

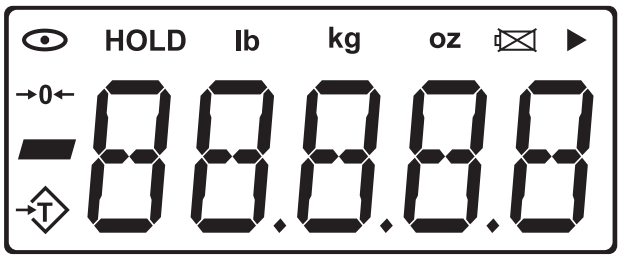
This parameter is for setting the size of the tracking range to indicate the stability. This is used to stable the scale once a weighing result is achieved. Press **[T]** to scroll through the settings. The display will show "**Str 1**" to "**Str 5**". If it is set to "**Str 1**" then the stability range is at its smallest and "**Str 5**" the highest.

- When the desired value is displayed, press the **[H/P]** key to select the value and exit the Technical Parameters. The display will count down to zero and the scale will return to normal weighing
- If **[M]** is pressed instead of the **[H/P]** key, the display will ask for Pin for entering into the Factory Parameters. Switch off the scale.
- Switch on the scale to start the operation.

## FACTORY PARAMETERS

If after the last Technical Parameter **[M]** key is pressed, the scale will advance to the Factory Parameter section. This section contains critical calibration reference information and is protected by a Pin Code which can only be accessed by a qualified technician. To exit, the user must switch off the scale when the display shows "**Pi**".

## Display




**DISPLAY SYMBOLS**

- →0← Scale is in the ZERO mode
- Reading is stable
- Battery is low
- Scale is in TARE mode

## HOW TO INSTALL VHD-2 DRIVERS

When you connect the VHD-2 to a PC (Windows XP & 7 compatible) for the first time you will have to install the correct drivers.

1. Begin with the scale powered off, press and hold the **[HOLD]** key, connect the scale to your PC with the USB cable and then release **[HOLD]**. The PC will auto install the USB DISK driver.
2. Now double click 

. Double click the file "init.bat" and the driver file will be copied to the system.
   NOTE: Please right click the "init.bat", and select "Run as administrator" if you use Windows 7.
3. Now reconnect the scale to the PC. Windows will now install the drivers automatically, follow the drivers instructions and select "YES" if you need to confirm.

## SPECIFICATIONS

| | | | |
|---|---|---|---|
| **Capacity** | 300kg x 0.1kg<br>660 lb x 0.2 lb<br>10582 oz x 5 oz | **Units** | kg, lb, oz, lb:oz |
| **Auto-OFF** | | 2 mins (default time) | |
| **Scale dimension** | | 900 x 600 x 40mm | |
| **Indicator dimension** | | 185 x 95 x 40 mm | |
| **Scale weight** | | 15kg | |
| **Operating temperature** | | Optimum 10-40°C (50-104°f) | |
| **Power Source** | | 4 x AA batteries / DC5V 600mA / USB adaptor 5V | |
| **Tare range** | | Up to scale's maximum capacity | |