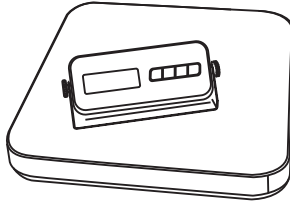


# HDCS-SERIES



ENGLISH



Thank you for purchasing the My Weigh HDCS Series heavy duty shipping 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](http://www.MyWeigh.com).

## SPECIFICATIONS

<b>Model</b>	<b>HDCS 60</b>	<b>HDCS 150</b>
<b>Capacity</b>	60kg/132lb	150kg/330lb
<b>Accuracy</b>	0.02kg/0.05lb	0.05kg/0.1lb

## POWER SUPPLY

The HDCS Series scale was designed to run with (9.0V / 100 mA AC ac adapter included) or optional 6 x AA batteries. The AC adapter plugs into the socket on the back of the scales weighing indicator. If you want to use batteries, please install them in the battery compartment on the back of the indicator.

### Battery Installation

For battery installation, turn over the indicator, you'll see the battery compartment on the underside of the base of the indicator, 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.

### Weighing Procedures

Press the **[ON/OFF]** switch on the back of the indicator, to turn ON/OFF the scale. The display will show "0.00". The scale is now ready for use. To begin weighing, follow these steps:

1. Press the **[U]** key to change the weighing unit between kg, lb and oz.
2. Press the **[Z]** key to TARE or Zero the scale.
3. Press the **[PCS]** key to enter counting mode. (see *PCS/Counting section*).
4. Press **[H]** to store a weight value. Press **[H]** again to clear.

## Tare / Zero

Tare can be used for eliminating the weight value of an empty container. Place an empty container on the scale and press **[ZERO]**. 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 **[ZERO]** again to return the scale to zero.

## PCS/Counting Mode

1. Press **[PCS]** to enter counting mode. Press **[UNIT]** to toggle the sample size  $P=10, 20, 50, 100$ .
2. Place the desired sample size on the platform and press **[PCS]**, the display will show "PASS".
3. Place the items that you want counted onto the platform and the total number of items will show on the display.
4. Press **[UNIT]** to return to normal weighing mode.

## CALIBRATION

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### When to calibrate - calibration is RARELY required.

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.

\*\*you must have an accurate 50kg weight for the HDCS 60 or 150kg weight for the HDCS 150 in order to calibrate\*\*

1. Make sure the scale is turned off. Press and hold **[ZERO]** and **[PCS]** (do not release). Turn on the scale, release when the LCD shows "CAL" then the A/D value (a series of random numbers).
2. Press **[PCS]** again, the display will show the correct calibration weight.
3. Place the correct calibration weight on the platform and then press **[PCS]**, the display will show "-----" and then return to the A/D value.
4. Calibration is complete. Turn the scale OFF and ON to return to normal weighing mode.

## SCALE SET UP

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The HDCS allows you to adjust the default settings of the scale.

### Auto-Off Setting

1. Press and hold **[HOLD]** (do not release). Turn on the scale, release when the display shows the auto-off time setting "A-OFF, A-120, A-180, A-300".
2. Press **[Z]** to toggle auto-off settings:
  - i) A-120=120 seconds.
  - ii) A-180=180 seconds.
  - iii) A-300= 300 seconds.
  - iv) A-OFF = Auto-off is disabled.
3. Press **[H]** to enter backlight setting mode or turn the scale OFF and ON to return to normal weighing mode.

### Backlight Setting

4. The display will show settings "L-Auto, L-ON, L-OFF or L-STB"
5. Press **[Z]** to toggle the settings:
  - i) AUTO= backlight enabled when weight is placed on platform.
  - ii) ON= backlight is on constantly.
  - iii) OFF= backlight is disabled.
  - iv) STB= backlight turns off if scale is not in use for more than 60 seconds.
6. Turn the scale OFF and ON to return to normal weighing mode.

## DATA TRANSMISSION – USB to UART INTERFACE (only for communication)

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### 1. USB to UART signal

#### 2. Format

- (1) Baud rate: 9600 bps
- (2) Data bits: 8 bits
- (3) Parity bit: none
- (4) Stop bit: 1 bit
- (5) Code ASCII

#### DATA FORMAT:

HEAD	SIGN	DATA	UNIT	CR
1 2	3	4 5 6 7 8 9 10 11 12 13	14 15 16 17 18	19 20

#### HEAD (2 bytes)

ASCII HEX

'M:' (4D 3A) --- overload

'W:' (57 3A) --- normal weight

#### SIGN (1 byte)

ASCII HEX

'+' (2B) --- positive

'-' (2D) --- negative

#### DATA (10 bytes)

20 (HEX) = ""(blank)

2E (HEX) = "."(decimal point)

30~39(HEX) = "0~9"

#### UNIT (5 bytes)

kg = 6B (HEX); 67 (HEX); 20 (HEX); 20 (HEX); 20 (HEX)

lb = 6C (HEX); 62 (HEX); 20 (HEX); 20 (HEX); 20 (HEX)

CR(2 bytes) = OD (HEX); OA (HEX)

#### TRANSMISSION EXAMPLE

+ 123.4 kg

HEAD	SIGN,	DATA	UNIT	CR
W:	+	123.4	kg	OD,OA

57H+3AH+2BH+20H+20H+20H+20H+20H+20H+20H+20H+31H+32H+33H+2EH+34H+6BH+67H+20H+20H+20H+20H+ODH+0AH

HEAD	SIGN	DATA	UNT	CR
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## GRAVITY VALUES FOR MAJOR CITIES AROUND THE WORLD

NOTE: For any locations not on the list you can do a quick search on the internet to find these.

Europe	City	Gravity Acceleration
Austria	Vienna	9.8090
Belgium	Brussels	9.8110
Bulgaria	Sofia	9.8035
Croatia	Zagreb	9.8068
Czech Republic	Prague	9.8100
Denmark	Copenhagen	9.8150
England	London	9.8120
Finland	Helsinki	9.8192
France	Paris	9.8094
France	Dijon	9.8074
Germany	Berlin	9.8128
Greece	Athens	9.8000
Greece	Thessaloniki	9.8028
Holland	Amsterdam	9.8128
Hungary	Budapest	9.8080
Ireland	Dublin	9.8135
Italy	Rome	9.8035
Italy	Milan	9.8066
Latvia	Riga	9.8157
Lithuania	Vilnius	9.8136
Malta	Valletta	9.7985
Norway	Oslo	9.8190
Norway	Trondheim	9.8212
Poland	Warsaw	9.8138
Portugal	Lisbon	9.8013
Russia	Moscow	9.8156
Serbia	Belgrade	9.8051
Slovakia	Bratislava	9.8090
Spain	Madrid	9.8000
Sweden	Stockholm	9.8184
Switzerland	Bern	9.8088
Ukraine	Kiev	9.8108

North America	City	Gravity Acceleration
USA	Washington	9.8011
USA	New York	9.8020
USA	San Francisco	9.8000
USA	Los Angeles	9.7960
USA	Oakland	9.8000
USA	Indianapolis	9.8015
USA	Miami	9.7888
USA	Las Vegas	9.7985
Canada	Ottawa	9.8060
Canada	Vancouver	9.8090
Canada	Montreal	9.8066
Mexico	Mexico City	9.7890
Costa Rica	San Jose	9.7820

South America	City	Gravity Acceleration
Chile	Santiago	9.7988
Colombia	Bogota	9.7805
Ecuador	Quito	9.7798
Peru	Lima	9.7870
Brazil	Rio de Janeiro	9.7880
Brazil	Brasilia	9.7870
Argentina	Buenos Aires	9.7970
Paraguay	Asuncion	9.7887
Trinidad and Tobago	Port of Spain	9.7826

## ACCELERATION OF GRAVITY MODE SETTING

The Gravity Mode feature provides a means of adjusting the scale's internal calibration factors to compensate for variations in acceleration due to gravity at different geographic locations. These differences can cause a given mass to indicate a slightly different weight at an end-users site than it did at the calibration site.

The scale maintains two gravity setting values:

GCAL is the Acceleration of Gravity in the place of this scale being calibrated.

GUSE is the Acceleration of Gravity in the place of this scale being used. The scale will use the relationship between calibration and local gravity for its weight calculations.

We have compiled a list of local gravity values for some areas of the world which can be found at the back of the manual. For any locations not on the list you can do a quick search on the internet to find these.

To adjust the gravity settings follow these steps:

1. Turn on the scale and wait for the display to show "0.0".
2. Press and hold **[UNIT]** for 3 seconds and the display will show "GCAL". Press **[ZERO]** to toggle between "GUSE" and "GCAL".
3. Press **[UNIT]** and the display will flash the current setting.
4. Press **[UNIT]** key to move to the next digit and press **[PCS]** to adjust the value.
5. Press **[HOLD]** to confirm the setting and return to normal weighing mode.

SPECIFICATIONS		
Model	HDCS 60	HDCS 150
Capacity	60kg/132lb	150kg/330lb
Accuracy	0.02kg/0.05lb	0.05kg/0.1lb
Units	lb, kg, oz, pcs	
Platform dimension	400 x 350 x 50mm (15.7" x 13.8" x 2")	
Display dimension	215 x 85mm (8.5" x 3.3")	
Scale Weight	4.35 kg	
Operating temperature	Optimum 10–40°C (50–104°F)	
Power Source	9.0V / 100 mA AC Power adaptor / 6 x AA Batteries	

### Display Messages


**EEEE** : overload

**Err-L** : Power on zero count too low

**Err-H** : Power on zero count too high

**Err-E** : Calibration Error

 : Battery Low

 : Current reading is stable

**-0-** : Scale is in ZERO mode