



hinckleymedical

The Next Generation of Emergency Medical Care

OneWeight™

Universal Ambulance Gurney Scale



MODEL #: PWS-100AX, -100BX, -200X, -100CT, -200NX
OPERATOR'S MANUAL



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1. Introduction

a. Description: OneWeight Universal Gurney Scale

The OneWeight Universal Gurney Scale, PWS- Series, is a medical scale system designed to accurately measure patient weights while on a transport gurney. The device consists of a set of overlays and a set of hole guides for mounting that attach to the gurney. In this manual, the device may be referred to as PWS, PWS-100/200, OneWeight, system, scale, device, etc.

[OneDose](#) is a clinical support application that pairs with the OneWeight scale and offers the same functionality as the LCD screen from any mobile device. Additional features, including automated dosing and treatment references based on the custom protocol from any agency, may also be included.

To attach the scales to the gurney, a series of hole guides are used to fix it in place, and the overlays connect using wire connectors. Once powered on, the device is ready for use.

This manual includes operating instructions, service instructions, device specifications, and warranty information for the PWS. For information on using the PWS systems, refer to the [Instructions for Use](#).

WE RECOMMEND THAT YOU READ THIS MANUAL CAREFULLY BEFORE USING THE DEVICE FOR THE FIRST TIME.

b. Indications

The Hinckley Medical OneWeight PWS systems are intended to provide weight measurements of patients to paramedics and other health professionals. The PWS can be used with pediatric and adult patients, within the weight range of 15 lb (7 kg) to 700 lb (318 kg), avoiding safety concerns outlined in [Section 2](#).

c. Definitions

OneWeight PWS can be defined as the following:

Medical device to provide weight measurement of patients on a transport gurney.

2. SAFETY: Proper Use and Maintenance of OneWeight Patient Scale

Warning: To ensure safe use of the OneWeight patient scale and to prevent injury or harm to yourself or others, please read the following information carefully.

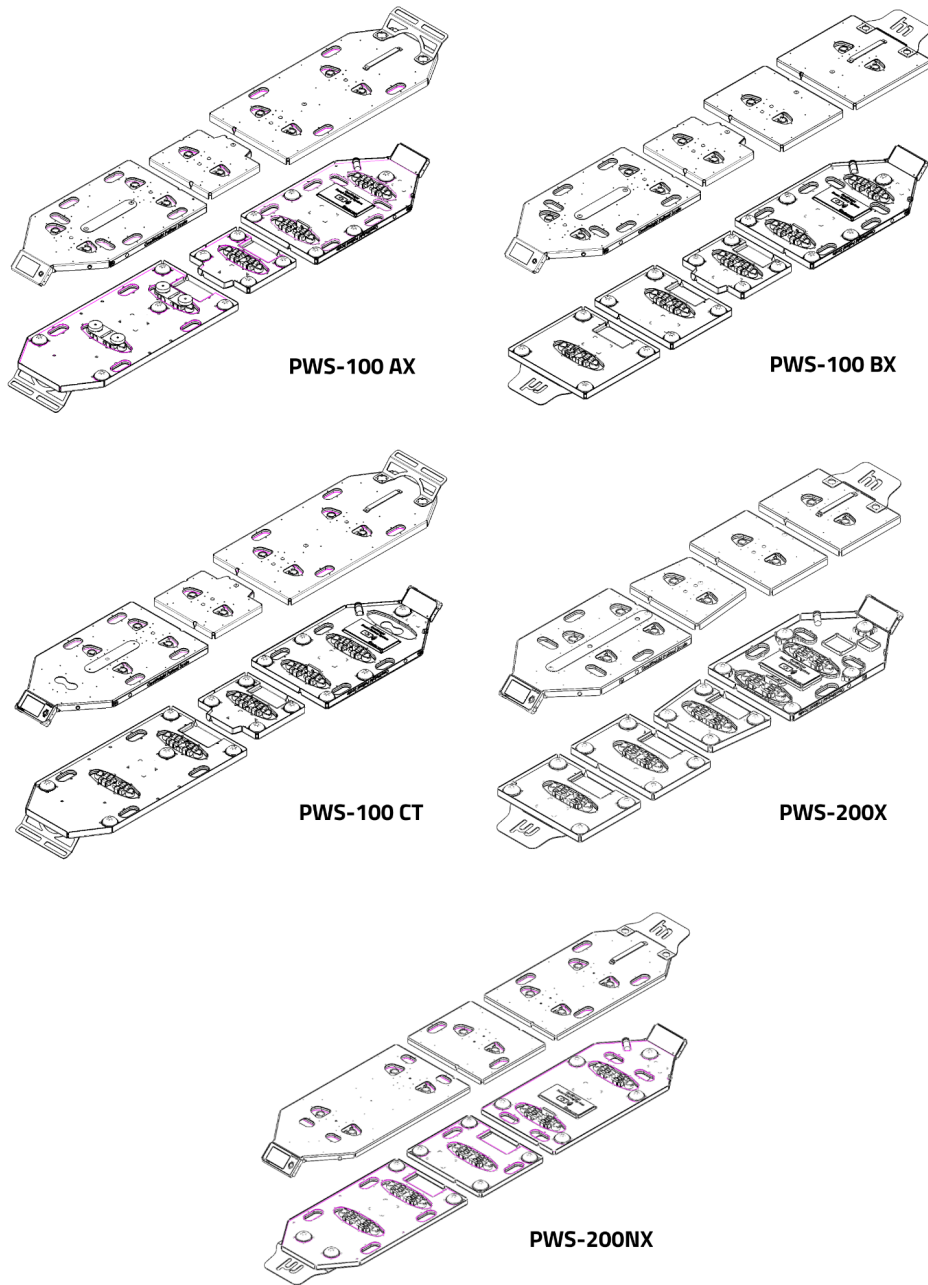
- Ensure proper device connections as described in the Operator's Manual.
- Do not use the scale if the display is outputting an error code, the patient is moving too rapidly, there are foreign objects on the gurney, or the weight of the patient's clothing/accessories contributes to significant doubt in obtaining accurate weight.
- Confirm that the scale is securely fastened to the gurney and do not use it if the gurney is on an uneven surface.
- When using a mattress or litter, make sure it is secured properly with Velcro or by other means.
- Maintain even distribution of weight on the scale panels when exceeding 125 lb to reduce the risk of inaccurate weight measurement.
- Do not use straps to secure the patient until after the weight is saved.
- Persons with disabilities or immobility should be assisted by a caregiver when using the scale to prevent falls and injuries.
- Do not stand or jump on the scale as it may cause injury to the user and damage to the device.



- The scale should only be used to measure body weight and should not be exposed to excessive vibration or powerful shocks.
- Do not drop the scale and store it horizontally. Do not place any items on the scale during storage.
- Do not attempt to repair or modify the scale without consulting a Hinckley Medical representative.
- Modifications or repairs should only be performed by qualified personnel and must be done by Hinckley Medical or its affiliates. Contact Hinckley Medical immediately for servicing needs or if the device is damaged.
- To avoid damage to the LCD display, disconnect and remove it from the scale before cleaning it. Do not immerse the LCD screen in any liquid. Proper cleaning of the LCD screen is outlined in [Section 5](#).
- Contact the Hinckley Medical technical support team at support@hinckleymed.com or 402-207-0220 before attempting any maintenance or for questions regarding servicing needs.



3. Overview and Operation



Note: The Operator’s Manual may generally refer to any PWS unit throughout to simplify operations and instructions for use of the device. The overall references in this manual are applicable to all PWS models.

a. Proper Device Connections

In order for the OneWeight system to operate correctly, it is important to confirm that it is properly connected. The OneWeight system is equipped with wired connections between the overlay panels, LCD display, and power source. The overlay panels are connected in sequence to one another using a 4-pin connector between each panel.



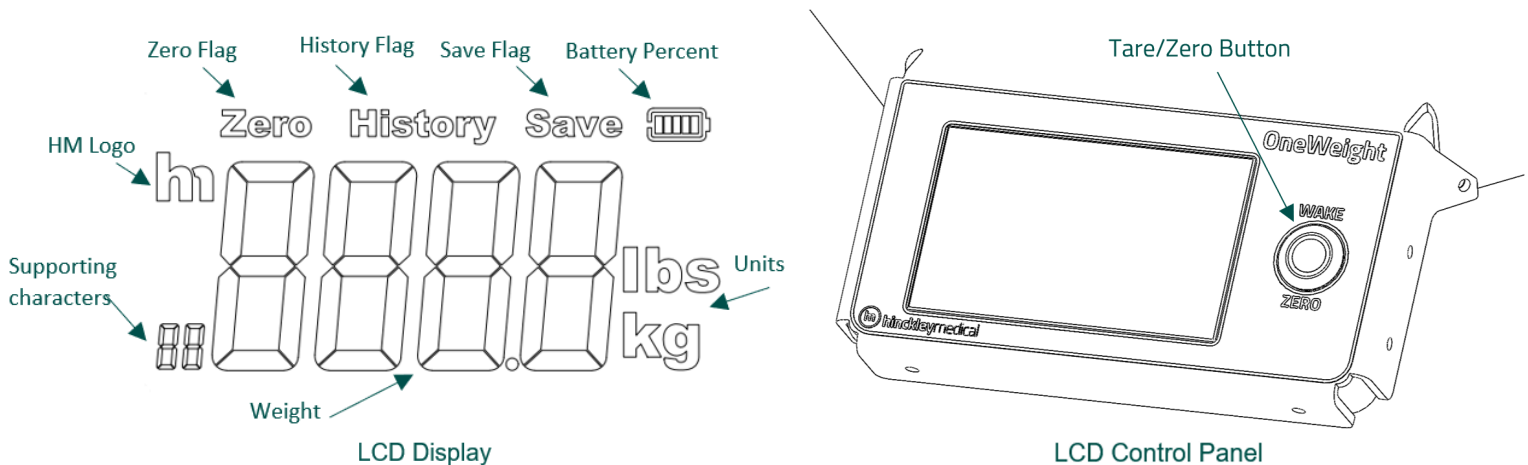
b. PWS Power-On Functions

After turning on the power switch, and verifying the proper connections to the overlay panels, the PWS will perform the following power-on functions:

- Internally perform all self-test functions.
- LCD display powers on to a brief loading screen after initial power on.
- Zero/Tare button LED turns on.

If the PWS LCD display does not recognize user inputs for a set period of time, the display will power-off.

c. Overview of LCD Control Panel



1. Display

- The LCD display shows the output weight measurement in desired units obtained by the PWS.
- The LCD display allows for the battery percentage to be read.
- The LCD display will display an error code if there is something wrong with the unit ("E.g. E-22")

2. Button

- The button is used for four different purposes.
 - i. Zero/Tare Scale: In the weigh state to zero/tare the scale.
 - ii. Reweigh Patient: After a patient's weight has been saved pressing the button will reweigh the patient with the SAME zero/tare values from before allowing you to reweigh the patient.
 - iii. Wake Device: After the device has entered an inactive state it will power off the LCD. Pressing the button will wake up the device to its last state.
 - iv. Bluetooth Pairing mode: Holding the button for three seconds will initiate BLE pairing.

3. Power Button

- The Power Button is used to turn on and off the system. It can be used for a hard cut off of power for storing for long periods of time.

d. Device States Overview

This section provides a concise overview of the essential information related to the device's states to facilitate user-friendly operation and comprehension. The following bullet points highlight the critical aspects of each state:

1. Weigh State (Primary state):

- Indication: LCD is ON with a 0.0 reading and no saved flag.



- Purpose: Measures and stores weight for AutoTare (disabled in low power mode).
 - 5-minute default timeout to Idle State.
 - Button function: Zero/Tare the scale.
2. Patient Applied State:
- Activated when a patient is on the gurney and their weight displays on the LCD.
 - Indefinite duration until the scale settles, the patient is removed, or the Zero/Tare button is pressed.
 - No inactive timeout; returns to Weigh State when conditions above are met.
3. Saved State:
- Activated when the scale settles and the patient's weight is displayed with a saved flag.
 - 10-minute default timeout to Idle State.
 - Button function: Reweigh patient using previously stored Zero/Tare values.
4. Idle State:
- Indication: LCD is OFF, but the scale remains responsive.
 - Activated after 5 minutes of inactivity in Weigh State or after 10 minutes in Saved State.
 - Wakes up upon button press or weight applied to the scale.
 - Returns to Weigh State or Saved State upon activation.
5. Sleep State:
- Indication: LCD is OFF, and the device remains predominantly inactive for power saving.
 - Recommended activation method: Press the button to wake the device before applying weight.
 - In low power mode, the button press is the only way to wake the device.

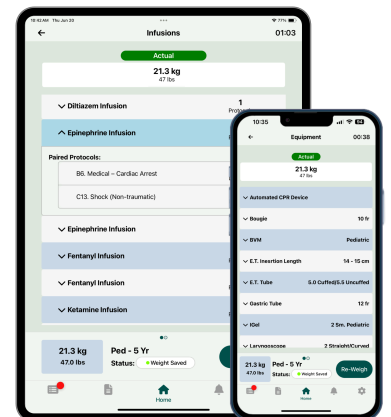
e. LCD Error Codes

NOTICE: In the case that the LCD displays an error code as described here (excluding E-20 Battery Level), contact a Hinckley Medical support representative. Do not use the device if error code displays. The LCD screen will display error codes in accordance with the following cases:

- "E-01" – "E-17": Represents load cell sensor error.
- "E-19" – "E-21": Represents a panel is unresponsive.
- "E-22": Critically low battery level; change batteries immediately.
- "E-23": Software compatibility error. Contact Hinckley Medical for troubleshooting.

f. OneDose Mobile Application

OneDose is a software application available on most mobile devices. This software will allow your mobile device to pair with the OneWeight scale to offer additional functions past the standard LCD screen, and with added features such as protocol prompts that automate dosage conversions/calculations with accuracy and efficiency, protocol management and updating, and more. Contact [Hinckley Medical](https://www.hinckleymedical.com) with any questions regarding OneDose.





4. Instructions for Use

a. Clear and Position Gurney

Make sure the gurney is clear of any foreign objects to allow for proper weight displacement. For the most accurate measurement, the gurney should be in the lowered, flat position. If necessary, you can weigh the patient in a Semi-Fowler position, with the topmost panel less than 45°.

b. Tare Scale

Before weighing the patient, the system must be tared/zeroed to obtain a valid weight measurement. You can use the AutoTare feature in the settings, which will automatically tare the scale when a weight is applied within the range of operation. For best accuracy, we recommend manually taring the scale before each use, even when the AutoTare feature is on.

c. Save Weight

The patient weight will save automatically when a patient is settled on the device enough to “level” the weight.

d. Common Errors

To ensure accurate weight measurement, be sure to lower BOTH side rails on the gurney and wait for the system to levelize and save the weight before raising them again. If the gurney has a head O2 mount, make sure that the mattress and the patient are not resting or rubbing against it. Before each use, check that there are no foreign items between the OneWeight overlays and the top faces of the gurney. If there are other concerns regarding accuracy of the system, refer to the [Calibration](#) section of this manual or contact Hinckley Medical.

5. General Maintenance and Storage

a. Cleaning

- For device overlays, use general cleaning solutions. Avoid using cleaning solutions with more than 70% alcohol or solvents such as acetone and thinner, as they may damage the label and plastic parts.
- Follow hospital procedures for cleaning similar electronics. Use an approved electronics towel to wipe down the display and then dry it with a clean cloth. Do not submerge the display in any liquid.

b. Storage

- Store all components in a cool, dry place when not in use.
- Do not store the device on its side.
- Do not place heavy items on the scale during storage.
- Confirm the power is OFF.

c. Disposal

- Before disposing of the OneWeight scale, contact your Hinckley Medical representative to discuss the [buy-back program](#).
- Hinckley Medical products may be disposed of by dividing them into different waste groups for recycling or combustion. We recommend disassembling our products as much as possible before disposal and attempting to recycle them.



6. Service and Warranty

Tel: +1-402-207-0220

Email: helpdesk@hinckleymed.com

a. General Maintenance

It is recommended that all repair, calibration, and servicing of the OneWeight PWS be performed by a qualified medical equipment service technician who is familiar with good practice for medical device repair. Before attempting any maintenance, please contact Hinckley Medical technical support for guidance.

b. Prior to Contacting Technical Support

When contacting technical support, you may be asked to provide the serial number of your OneWeight PWS System. Every Panel has a Serial Number, which can be found on the underside of the overlays.

c. Calibration

Each OneWeight scale undergoes factory calibration, which involves fine-tuning the load cells to ensure accurate readings. To maintain its accuracy, the scale calibration must be verified annually. Please note that only calibrated, certified test weights should be used for this purpose and Hinckley Medical recommends using 10 kg, 20 kg, and 30 kg gauge weights. It is important to avoid using unverified weights, as their actual weight can deviate significantly. If you need assistance finding certified test weights, please contact your Hinckley Medical representative. Alternatively, you may use the weight comparison method, which requires a known accurate, calibrated scale. To use this method, weigh a fixed weight on the calibrated scale and then compare it to the weight measured on your OneWeight device. Hinckley Medical recommends annual manufacturer calibration and assumes no responsibility for the reliability, performance, or safety of the PWS systems if the device calibration is dated over 1 year. Contact Hinckley Medical if your device is in need of calibration.

d. In-Warranty Repair and Exchange

If your PWS requires factory service during the warranty period, call Hinckley Medical customer service to obtain a claim number. Your customer service representative will provide you with a shipping box and label upon request. You may inquire about borrowing a PWS while we service your system or receive a replacement. For more details regarding warranty claims, contact the Hinckley Medical support team.

e. Warranty and Service Options

Option 1: OneWeight Device Purchase

Hinckley Medical offers a 2-year warranty for the OneWeight scale device when purchased alone. This warranty covers device malfunction due to manufacturing errors, and all repairs and replacement of faulty components are provided free of charge up to the retail value of the OneWeight scale (shipping costs may fall onto the customer). Please note that the warranty does not cover maintenance or labor costs associated with repairs or installations of replacement parts. The warranty is valid only if the device was purchased directly from Hinckley Medical or an approved Hinckley Medical distributor, and if it has been used and maintained correctly without tampering or exposure to violent treatment. Additionally, the warranty requires that the sub-components (load cell casings, LCD casings, etc.) remain unopened and have been used correctly. The expected service life of the OneWeight scale is 7



years, though the actual service life may vary depending on the specific application. For any warranty-related inquiries, please reach out to a Hinckley Medical representative.

Option 2: OneDose + OneWeight Service Agreement (Available upon consultation with a Hinckley Medical representative)

By enrolling in the OneDose powered by OneWeight service agreement, you will have comprehensive coverage for all repairs, maintenance, and calibration of the OneWeight scales during the contract period. This agreement includes the implementation of OneDose according to your existing protocols and covers ongoing support, feature additions, security updates, server costs, and other services related to the OneDose license. If you choose not to renew the contract, you will retain ownership of the OneWeight scales; however, any further coverage or warranty will require additional charges. Similarly, if the contract is not renewed, the OneDose license will expire, resulting in limited functionality. For more information on the benefits and terms of the OneDose service agreement, please consult a Hinckley Medical representative.

f. Product Buyback Credit

Hinckley Medical offers a buyback credit on old devices when buying a new device. The trade-in value is variable and will be defined at the time of the transaction. For questions regarding product buyback credits, contact a Hinckley Medical representative.

g. Hinckley Medical Application Policy

Hinckley Medical products should be used as described in the Operator's Manual. The suitability and functionality of these products and their performance under varying conditions (application, load, vibration, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the customer using any Hinckley Medical product. Hinckley Medical shall be responsible solely that the products they sell comply with the specifications set out by Hinckley Medical, and it shall be the responsibility of the customer to ensure that the specific product can be used for the application in question.



7. Specifications

Model	PWS-100AX	PWS-100BX	PWS-100X CT	PWS-200X	PWS-200NX
Compatibility	Stryker Power-PRO XT	Stryker Power-PRO XT with Knee Catch	Stryker Power-PRO XT and Knee Catch	Stryker Power-PRO 2	Ferno iNX
Dimensions (in)	72 x 15 x 1.5	70 x 15 x 1.5	72 x 15 x 1.5	67 x 15 x 1.5	77 x 15 x 1.5
Dimensions (cm)	183 x 38 x 4	178 x 38 x 4	183 x 38 x 4	170 x 38 x 4	195 x 38 x 4
Weight (lb)	21.4	21.2	21.4	18.5	-
Weight (kg)	9.7	9.6	9.7	8.3	-
Max Weight Capacity	700 lb (318 kg)				
Output Weight Accuracy	<p>Range of Operation: 15 lb (7 kg) – 700 lb (318 kg)</p> <p>Supine Position: Recommended</p> <p>Accuracy: ± 3 lb (1.3 kg) of total patient weight for patients up to 100 lb (45.4 kg). ± 3% of total patient weight for patients weighing 100 lb (45.4 kg) to 700 lb (318 kg)</p> <p>Semi-Fowler Position: Not Recommended but Capable</p> <p>Note: While the device can function in this position, accuracy may be inconsistent.</p> <p>Fowler Position: Not Recommended</p>				
Moisture Resistance	Waterproof Overlays; Water Resistant LCD Display (rain, snow, etc.)				
Operating Temperature	-4°F to 158°F (-20°C to 70°C)				
Power	Internal Li-Ion Battery				
Certifications	SAE J3043 Ambulance Crash Testing, AMD028 Ambulance Crash Testing				