

Attendant® BLUETOOTH DIGITAL CHAIR SCALE Model 6880DS



Please keep and refer to this Owner's Manual.

Thank you for purchasing an Attendant[®] Bluetooth Digital Chair Scale. Please read this entire guide carefully and keep it for future reference. This guide will provide you with instructions, warnings, warranty information, and other important information about your Attendant Bluetooth Digital Chair Scale. Share this information with those individuals who will be assembling, using, servicing, and/or cleaning the product to help ensure it is cared for properly.

STOP! READ THIS MANUAL THOROUGHLY BEFORE PROCEEDING.

1-800-245-9917

Table of Contents

Introduction	3
Definitions and Symbols	
Warnings	4
FCC Compliance Statement	4
Proper Disposal	
Specifications	5
Site Preparation Requirements	6
Installation	7 - 10
Weighing Units Selection	
Keypad Functions	
Annunciators	14
Operation	
Setup & Calibration	
Data Format	24
Event Counter	
Printer Output Formats	
Bluetooth Low Energy (BLE)	27
Error & Status Displays	
Care & Cleaning	
Limited Warranty	
Customer Service	

Introduction

Introduction

Thank you for purchasing the Attendant[®] Bluetooth Digital Chair Scale. This scale has been tested before leaving the factory to ensure accuracy and dependability for years to come.

In this owner's manual, you'll find important information you should read before assembling or using this product. Please keep this manual in a safe place for future reference.

If at any time you do not understand how to use this product, or you suspect it may be damaged, DO NOT USE and immediately contact the distributor that sold this product to you.

This owner's manual is compiled from the latest specifications and product information available at the time of publication. Changes may be made to this manual at any time. Contact your distributor for a current copy of this owner's manual.

Definitions and Symbols

NOTE: Indicates a tip.

CAUTION: Indicates correct operating or maintenance procedures in order to prevent damage to or destruction of the equipment or other property.

WARNING: Calls attention to a potential danger that requires correct procedures or practices in order to prevent personal injury.

Attention. Read the instructions.

A: Electrical Shock Hazard Warning.

PRODUCT or DEVICE: Your Attendant Bluetooth Digital Chair Scale, Model 6880DS distributed by Direct Supply Manufacturing, Inc. ("We", "Us" or "Our").

WE, US and OUR: Direct Supply Manufacturing, Inc.

"You" means the user, caregiver or any other individuals who will be using or servicing the product.

"Distributor" means the reseller or other entity from whom you purchased this product.

"Medical Professional": The physician or other healthcare professional who is familiar with the user's medical history and current medical condition, and is responsible for determining if this product is medically appropriate for the user.

Caregiver: the individual(s) responsible for the care and needs of the user, such as a spouse, adult family member or home health aide. The caregiver must be available at all times to provide the user with physical and cognitive assistance and provide supervision as needed.

User: The individual who uses the device.

Serial Number

Date of Purchase

Purchased From

RETAIN THIS INFORMATION FOR FUTURE USE

Warnings, FCC Compliance Statement & Proper Disposal

Warnings

Read and follow all directions and warnings before use or assembly. Do not use or assemble if you do not understand the contents of this manual – contact your distributor for assistance. Damage, injury or even death may result from improper use of this product or not following directions and warnings. This product is intended for use in normal, indoor conditions. This product may not be appropriate for all individuals.

WARNING: Prior to use of this product, the user's medical professional should be consulted to ensure this product is appropriate for the user's specific needs based upon his or her overall medical condition and limitations.

A WARNING: This product is NOT intended for patient transport. It is to be used ONLY for patient weighing. Failure to observe this warning may result in serious injury to the patient and/or the scale operator.

Please read and follow all directions and warnings before using this device.

FCC Compliance Statement

WARNING! This equipment generates uses and can radiate radio frequency and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been designed within the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible to take whatever measures necessary to correct the interference.

You may find the booklet "How to Identify and Resolve Radio TV Interference Problems" prepared by the Federal Communications Commission helpful. It is available from the U.S. Government Printing Office, Washington, D.C. 20402. Request stock No. 001-000-00315-4.

Proper Disposal

When this device reaches the end of its useful life, it must be properly disposed of. It must not be disposed of as unsorted municipal waste. The device should be disposed of in accordance with the local laws regarding the disposal of waste electrical and electronic equipment.

It is everyone's responsibility to help maintain the environment and to reduce the effects of hazardous substances contained in electrical and electronic equipment on human health. Please do your part by making certain that this device is properly disposed of. The symbol shown above indicates that this device must not be disposed of in unsorted municipal waste programs.



▲ CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Specifications

Capacity	550 x 0.2 lb. (250 x 0.1 kg)
Weighing/Height Units	Pounds/Inch (lb., in.) or Kilograms/Centimeters (kg, cm)
Overall Dimensions	Footrest up: 37¾6"H x 25½"W x 31¼"D (94.5 cm H x 65.1 cm W x 79.4 cm D) Footrest down: 38¾"D (98.4 cm D)
Display Type	Dual Row Seven Segment LCD
Number of Characters	Weight: 5 digits, 0.75" (19 mm) high Height/BMI: 4 digits, 0.4" (10 mm) high
Keys	Mechanical switch type: Power, Lock/Release, Zero, Up Arrow, Down Arrow/Send, BMI/ Enter
Power Requirements	12 AA Alkaline, Ni-Cad or NiMH batteries (not included) OR an optional 100 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power adapter
Operating Environment	Temperature Range: 14° to 104°F (-10° to +40°C) Humidity: 0% to 90% non-condensing
Storage Environment	Storage Temperature Range: -4° to 176°F (-20° to +80°C) Humidity: 0% to 95%
Communication Interfaces:	USB, RS232, Wi-Fi, Bluetooth

Standard Features:

 StableSENSE[®] 1 Adjustable Filtering
• 1 Micro-B USB Port
 Wi-Fi / Bluetooth BLE

Optional Features:

• Optional 12V DC AC Power Adapter

1 StableSENSE® is a digital filter utilizing proprietary software algorithms to remove or greatly reduce changes in the weight display resulting from movement on the scale platform. StableSENSE® can be used with clinical scales to lessen the effects of the user's movement or vibration on the scale. Any application affected by vibration or movement on the scale platform can benefit using StableSENSE®.

Site Preparation Requirements

The Attendant Bluetooth Digital Chair Scale is a precision weight indicating instrument. It requires an acceptable environment to operate at peak performance and reliability. This section is provided to assist you in obtaining such an environment.

Environmental

- For indoor use only.
- Suitable for dry environments only RH < 90% and non-condensing environments.
- NEVER allow scale to get wet.
- The scale meets or exceeds all certification requirements within a temperature range of 14° to 104°F (-10° to +40°C).

The scale should be placed out of direct sunlight and to provide adequate air circulation, keep the area around the indicator clear.

Do not place the scale directly in front of a heating or cooling vent. Such a location will subject the indicator to sudden temperature changes, which may result in unstable weight readings.

When using the AC power adapter, ensure that the scale has good, clean AC power and is properly grounded. In areas subject to lightning strikes, additional protection to minimize lightning damage, such as surge suppressors, should be installed.

Electrical Power

The Attendant Bluetooth Digital Chair Scale has been designed to operate from a 100 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power adapter. Note that a special order is not required for operation at 230 VAC.

- The socket outlet shall be installed near the equipment and shall be easily accessible.
- On installations requiring 230 VAC power, **it is the responsibility of the customer** to have a qualified electrician install the proper power adapter plug that conforms to national electrical codes and local codes and ordinances.

Electrical Noise Interference

To prevent electrical noise interference, make certain all air conditioning and heating equipment, lighting or other equipment with heavily inductive loads, such as welders, motors and solenoids, are on circuits separate from the system. These sources of disturbances can affect the operation of the scale. Steps must be taken to prevent possible adverse effects on the scale. For example, using simple line filters, isolation transformers, power regulators or un-interruptible power supplies.

Installation

WARNING: Unpack the product in an area with sufficient room to work. Do not allow children, animals or individuals with impaired cognitive or physical abilities near the product until it has been completely set up and the work area has been cleared of all debris

Unpacking

- Cut packing straps securing the shipping box.
- To remove scale from the box, lift up with equal force on the padded handles and at the lower frame. Set gently on floor. DO NOT lift scale by chair seat.
- Remove all plastic wrapping, foam fillers and cardboard material from the scale.
- Check the scale and indicator for any damage incurred in shipping. If scale or indicator has been damaged, DO NOT USE and immediately contact your distributor for further instruction. Keep carton and packing material for return shipment if it should become necessary.
- Remove and unpack the optional A/C power supply and cord, if applicable.

A NOTE: For instructions on powering the scale using the AC power adapter (if included) or for instructions on how to install batteries, refer to the Interconnections section of this manual.

A NOTE: Before beginning a weighing operation, remove and discard the cable tie securing the footrest to the upper frame.



Interconnections

The input and output connections to the scale are made on the back of the weight display. The AC power adapter (if included) connection to the scale is located on the scale base.

AC Power Adapter:

To power the scale using the 12 VDC wall plug-in UL/CSA listed AC power adapter (if included), connect the plug from the adapter into the power jack on the rear right side of the scale base under the seat (*Figure 1*). Then plug the power adapter into the proper electrical outlet. On models requiring 230 VAC, it is the customer's responsibility to obtain the correct power adapter plug.

USB:

The USB port on the scale is a device (or upstream) port and uses readily available cables with the industry standard "Micro-B" connector. The USB port may be connected to a computer for transmission of weight and associated data to a PC-based electronic medical record (EMR) software program. The data can be transmitted on demand (pressing the @ key) or on receipt of a command from the computer.

RS232 COM Port:

The scale has one RS232 serial port on the back of the display. This port may be used to request and capture weight, send basic commands, or get diagnostics from the load cell. To purchase a scale-to-PC serial cable, contact your distributor.

Placing the Scale:

- Place scale on a flat, level floor or low-cut carpet away from heating and cooling vents.
- Ensure the AC power adapter (if included) cord is out of the way of normal traffic to avoid a trip hazard.
- NEVER allow scale to get wet.

Check to ensure the scale is level. The level indicator is located at the rear of the scale behind the seat. If the scale is not level (the bubble will not be centered), position the scale as required to center the bubble and attain a level scale.



▲ **NOTE:** Any time the scale is moved or re-located, check the bubble position to ensure the the scale in level before using.







Batteries

The Attendant Bluetooth Digital Chair Scale, Model 6880DS, can use 12 "AA" size Alkaline, Ni-Cad or NiMH batteries (not included). You must first obtain and install batteries before operations can begin. Batteries are contained in two battery holders (6 batteries in each holder) on the scale base behind the seat. Access is via removable panels on the battery compartments.

▲ **CAUTION!** The Attendant Bluetooth Digital Chair Scale can be operated from Alkaline, Ni-Cad or NiMH batteries. All 12 batteries must be of the same type. They must all be Alkaline, all Ni-Cad or all NiMH. DO NOT mix Alkaline and Ni-Cad or NiMH batteries.

▲ **NOTE:** The scale does not have a battery charging circuit. Should you wish to use Ni-Cad or NiMH batteries, they must be fully charged before installing. When discharged, Ni-Cad or NiMH batteries must be removed and placed in an external charger to recharge.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THEIR INSTRUCTIONS.

Battery Status

The battery status will be displayed when batteries are installed. The battery bar graph on the display indicates the battery capacity in five steps:



- 4 segments the full battery capacity is available
- 3 segments the battery is at 80% of capacity
- 2 segments the battery is at 60% of capacity
- 1 segment: the battery is at 40% capacity
- 0 segments the battery is at less than 20% capacity

When the battery voltage drops too low for accurate weighing, the scale display will show $L \Box$ on the small upper seven-segment display and bBL b on the large lower seven-segment display and shut off. You will be unable to turn the scale back on until the batteries have been replaced.

Using Alkaline Batteries

When no bars are shown on the battery status symbol, press the $\mathbf{\Phi}$ key to turn the scale off, remove the old batteries and replace with new ones.

Using Ni-Cad or NiMH Batteries

When no bars are shown on the battery status symbol, press the Φ key to turn the scale off, remove the discharged batteries and replace with fully charged ones. Place the discharged batteries in an external charger to recharge.



Battery Installation/Replacement

To install or remove the batteries, the following steps should be followed:

- 1. Make sure the AC power adapter is unplugged.
- 2. Locate the two rectangular panels on the scale base behind the seat.
- 3. To install or replace the batteries, first remove the battery holder covers by pushing in on the tab and lifting up. (*Figures 3 & 4*)
- 4. If installing new batteries, proceed to step 5. If replacing the batteries, remove all 12 batteries (6 in each holder) from the battery holders and then proceed to step 5.
- 5. Install the new AA size batteries in the battery holders, noting the polarity markings located in the battery holder.
- 6. After placing all batteries in the holders, replace the battery covers. Press the ${f O}$ key.
- 7. If display turns on, batteries have been installed correctly. If not, remove panel and check for one or more improperly positioned batteries.
- 8. The indicator is now ready for operation.





Figure 3

Figure 4

Weighing Units Selection

When the scale is turned on for the <u>first</u> time, it will display a prompt to select the weighing units to use for your operation, lb (pounds) or kg (kilograms). The weighing units selection can **ONLY** be made at this time and cannot be changed afterward. Ensure the correct weighing units are selected before proceeding.

- 1. Press the \mathbf{O} key to turn the scale on.
- 2. A display test will be performed (all digits on the weight display will turn on), it will change to show the software version for a few seconds, and then the display will change to show **SEL UNIT** with the lb annunciator (factory units setting) turned on.
- 3. If the lb (pounds) units setting is acceptable, press the → key to save the setting, and then proceed to step 5.
- 4. Otherwise, press the *f* or *J* keys to toggle the weighing units from lb (pounds) to kg (kilograms). Press the even key to save the setting.
- 5. The display will change to show 0.0, with the ⇒0 (ZERO), the ▲ (STABLE), and the weight unit annunciator turned on.
- 6. The scale is now ready for operation.

Keypad Functions



WARNING: DO NOT operate the keys with pointed objects (pencils, pens, etc.). Damage to keys resulting from this practice is NOT covered under warranty.



This is the **Power** key. With the scale off, pressing this key will apply power to the scale and turn on the display. If the scale is already on, pressing the key will turn it off.



This is the **Lock/Release** key. Press and release this key to cause the weight, height, and BMI to lock on the current values until the key is pressed again. While the scale display is locked, the annunciator resembling a padlock will turn on in order to denote that the weight is being held.



This is the **Zero** key. Press and release this key to reset the display to zero. Note that when this key is pressed with weight on the scale platform, the display will zero the weight up to 100% of the scale capacity. When the weight is removed, the display will show a negative weight value. Press the \Rightarrow **0** \Leftarrow key again to reset the display to zero.



This is the **Enter** key. It serves two purposes. First, during setup, pressing the \leftarrow key will accept the current displayed setting of the parameter. Second, the \leftarrow key is used to signal completion of the entry of data (in both setup and operation) and causes the scale to process the data entered.



This is the **BMI** key. It is used to input the user's height and then to perform the Body Mass Index (BMI) calculation. Note that the scale will not respond to pressing the key unless the weight is stable.

Pressing the key once allows the operator to enter the height of the user using the \hat{D} or \hat{U} keys to increase or decrease to the correct height. After entering the user's height, pressing it again will display the Body Mass Index (BMI) calculation. Pressing it a third time, will return the display to the user's weight.



(Up Arrow Key)

During operation, the \hat{D} key is used when performing the Body Mass Index (BMI) calculation to increase the height value.

NOTE: When entering the height for BMI calculation, pressing and holding the up arrow key \hat{D} key allows you to rapidly increase the height entry.



(Down Arrow)

During operation, the \mathcal{J} key is used when performing the Body Mass Index (BMI) calculation to decrease the height value.

NOTE: When entering the height for BMI calculation, pressing and holding the up arrow key \mathcal{J} key allows you to rapidly decrease the height entry.



This is the **PRINT** key. It is used to signal completion of the data entry, process the data entered, and to send the weight and associated data to the USB port, RS232 serial port and Wi-Fi/Bluetooth.

NOTE: The scale will not respond to pressing the <u>O</u> key unless the weight display is stable.

Annunciators

The annunciators are displayed on the Weight screen to show that the scale is in the mode corresponding to the annunciator label or that the status indicated by the label is active.



The low battery annunciator is located in the upper left corner of the display. It is used to indicate the battery status. Refer to Battery section of this manual for more details.

CAL (Calibration)

This annunciator is turned on when scale is in the Setup and Calibration mode.

(STABLE)

This annunciator is turned on when the weight display is stable. When off, it means that the change in successive weight samples are greater than the motion limits selected during setup.

→0← (ZERO)

This annunciator is turned on to indicate that the weight displayed is within +/- 1/4 division of the center of zero.

🔒 LOCK

This annunciator is turned on to show that the indicator is locked onto the displayed weight. In operation, after obtaining a stable weight, pressing the key will cause the scale display to lock onto the weight and turn on the annunciator. Pressing the key again will unlock the display and turn off the annunciator.

BMI (Body Mass Index)

This annunciator is turned on when displaying the calculated body fat.

kg

This annunciator is turned on to indicate that the displayed weight is in kilograms.

lb

This annunciator is turned on to indicate that the displayed weight is in pounds.

cm

This annunciator is turned on when the displayed height measurement is in centimeters.

...

This annunciator is turned on when the displayed height measurement is in inches.



Operation

A WARNING! - This product is not intended for patient transport. It is to be used ONLY for weighing a user. Failure to observe this warning may result in serious injury to the user and/or the scale operator.

▲ CAUTION: ALWAYS assist the user onto scale chair. NEVER leave a user unattended while in the scale chair. Failure to maintain control of the user at all times can result in serious injury to the user and/or scale operator.

▲ CAUTION: ALWAYS lower the footrest after the user is seated. ALWAYS raise the footrest before the user stands up. NEVER stand upright on the footrest.

Basic Weighing Operation

To Weigh

- 1. Place the chair scale on any hard, level, flat surface or low-cut carpet.
- 2. With no weight on the scale, Press \mathbf{O} key to turn on indicator.
- Press $\Rightarrow \mathbf{0} \Leftrightarrow$ key to zero weight display. The $\Rightarrow \mathbf{0} \Leftrightarrow$ and $\blacktriangle \checkmark$ (STABLE) 3. annunciators will turn on to show a stable, center-of-zero weight condition.
- 4. Raise the armrests and footrest if needed, and assist the user onto the scale chair. Lower the armrests (for user comfort) and lower the footrest. Have the user place their feet on the footrest before weighing.
- **A IMPORTANT!** The user's feet must be on the footrest before weighing.
- 5. When weight is stable, the A (STABLE) annunciator will turn on.
- The weight reading will automatically lock and the annunciator resembling a 6. padlock will turn on. Note that the amount of time the reading will hold is dependent upon the HOLd setting in Setup.

NOTE: If more time is needed, press the **a** we to hold the locked weight reading.

- 7. Read and record weight displayed.
- Assist user off scale. 8.

Body Mass Index (BMI) Operation

To Weigh and Calculate BMI

- Press 😃 key to turn scale on. 1.
- If required, press $\Rightarrow 0 \Leftrightarrow$ key to zero weight display. 2.
- 3. Raise the armrests and footrest if needed, and assist the user onto the scale chair. Lower the armrests (for user comfort) and lower the footrest. Have the user place their feet on the footrest before weighing.

▲ **IMPORTANT!** The user's feet must be on the footrest before weighing.

- When weight is stable, the **A** (STABLE) annunciator will display. 4.
- 5. The weight reading will automatically lock and the annunciator resembling a padlock 🔒 will turn on. Note that the amount of time the reading will hold is dependent upon the HOLd setting in Setup.

6. Read and record weight displayed.

- 7.
- If the key was not pressed in Step 5, press it now to hold weight reading. Press key. Display will change to the default height of 66.2 inches (168.0 cm). 8.
- Press $\frac{1}{10}$ or $\frac{1}{2}$ keys to adjust the height value on the display to match the user's 9. measured height.
- 10. Press key. Display will change to show BMI.
- 11. Read and record user BMI.

NOTE: While user is still on scale, pressing 🔛 key will toggle between BMI and weight display.

- 12. Assist user off scale.
- 13. Once weight is removed from scale, the display automatically returns to weight only mode.

Setup & Calibration

Your Attendant Bluetooth Digital Chair Scale has been thoroughly tested and calibrated before being shipped to you. If you received the indicator with a scale, calibration is not necessary. If the scale's factory settings do not meet the requirements of your operation or recalibration of the scale is necessary, the following describes the setup process for your scale.

▲ **NOTE:** The keys are not to be operated with pointed objects (pencils, pens, fingernails, etc.). Damage to the keys resulting from this practice will NOT be covered under warranty.

Begin Setup and Calibration:

- 1. Press the 🕐 key to turn the scale on.
- 2. The scale will perform a display test (turn on all segments and annunciators) and then change to the show the software version.
- 3. With the software version displayed, press and hold the $\rightarrow 0 \leftarrow$ key.
- 4. The display will change to show the *ERP* prompt, the current Scale Capacity setting and turn on the **CAL** (calibration annunciator).
- 5. The scale is now ready for setup and calibration

While in Setup, the current setting prompt will be shown in the smaller upper seven-segment display, while the value of the current setting will be shown in the large lower seven-segment display. Note, that when moving through the setup prompts, the default or previously selected value appears first on the display.

Setup Navigation Keys



This is the **Enter** key. Press the key to accept the current displayed setting of the parameter and advance to the next setup prompt.



This is the **Lock/Release** key. Press the key to return to the previous setup prompt.



(Arrow Keys)

These keys are used when selecting setup values. Pressing the \hat{D} or $\hat{\mathcal{J}}$ keys will increase or decrease the value of the selected parameter or toggle between the available parameter values.

Each press of the the \hat{D} key will increase the displayed setup parameter value by one-step or toggle between available values.

Each press of the \mathcal{J} key will decrease the displayed setup parameter value by one-step or toggle between available values.

NOTE: When entering the scale capacity ([PP]) and calibration load value (LORd), pressing and holding the arrow keys allow you to rapidly increase or decrease the displayed setup parameter value.

(SCALE CAPACITY)

The display will show **CAP** and the current setting. If the value displayed is acceptable, press the $\cancel{1}$ or $\cancel{1}$ keys to select a new value and then press the $\cancel{1}$ key to save it and proceed to the next prompt.

This is the maximum allowed weight of the scale. It should be set to 550.0.

Interval setting)

The display will show **Int** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the \checkmark or \checkmark keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This is the minimum graduation of the scale. Allowable settings are 1, 2, or 5.

JEC (DECIMAL POINT POSITION)

The display will show **dEC** and the current setting. If the value displayed is acceptable, press the \cancel{I} or \cancel{I} keys to select a new value and then press the \cancel{I} key to save it and proceed to the next prompt.

This is the decimal point precision of the scale. Allowable settings are 0, 1, 2, or 3.

0 = XXXXX 1 = XXXX.X 2 = XXX.XX 3 = XX.XXX

Sr (SAMPLE RATE)

The display will show **Sr** and the current setting. If the value displayed is acceptable, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the $\cancel{2}$ key to save it and proceed to the next prompt.

This is the number of times per second the load cell is sampled. Allowable values are a minimum of **1** sample per second to a maximum of **10** samples per second in one sample per second intervals.

The display will show **Unit** and the current setting. If the value displayed is acceptable, press the key. Otherwise, press the keys to toggle the weighing units between lbs. (pounds) or kg (kilograms) and then press the

This is the weighing units of the scale. Allowable settings are lbs. (pounds) or kg (kilograms).

NOTE: The height units are determined by the weighing units selected. For example, if the weighing units are lbs. (pounds), the height units will be in feet/inches.

FILE (DIGITAL FILTER MODE)

The display will show **FILt** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the \checkmark or \checkmark keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This is the amount of digital filtering applied to the scale. Allowable settings are 0, 1, 2, or 3.

0 = Off 1 = Minimal 2 = Moderate 3 = Maximum

MOTION RANGE)

The display will show **nnOt** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{4}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

The motion range is the number of divisions of change permitted before indicating unstable (the STABLE annunciator turns off). Allowable values are 1 to 10.

EUrD (OIML)

The display will show **EUrO** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to toggle the OIML selection between **YES** or **no** and then press the \checkmark key to save it and proceed to the next prompt.

This setting controls the OIML (European) specific requirements. Allowable settings are **YES** for EU or **no** for US.

PIII (Power Up Zero)

The display will show **PUO** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the \hat{D} or \hat{J} keys to toggle the power up zero between **YES** or **no** and then press the \checkmark key to save it and proceed to the next prompt.

This setting controls zeroing of the scale on power up. If enabled, the scale will be reset to zero automatically on power up. Allowable settings are **YES** or **no**.

(Zero Tracking)

The display will show **Otr** and the current setting. If the value displayed is acceptable, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the $\cancel{2}$ key to save it and proceed to the next prompt.

This setting controls the automatic zero tracking of the scale. Allowable values are 0 to 10, indicating the number of half-divisions above or below zero that the scale will attempt to maintain the zero position.

NOTE: Select 0 (zero) to disable zero tracking.

SEC / (Com1 Mode) The display will

The display will show **SEr1** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the \hat{D} or \hat{J} keys to toggle the Com1 Mode between **Cont** (continuous output), **POLL** (weight on demand) and **SPot** (Welch-Allyn Spot LXi interface) then press the key to save it and proceed to the next prompt.

This setting controls the output for Com 1. Allowable settings are **Cont**, **POLL** or **SPot**.

If **Cont** (continuous output) was selected for Com 1, the scale will continuously transmit weight data.

If **POLL** (Weight-On-Demand) was selected for Com 1, and the scale is connected to a computer for transmission of weight data to a PC-based EMR (electronic medical record) software program, it will transmit a single set of weight data each time the computer sends a weight request "ENQ" (hex 05) or a SMA weight request "W".

If **SPot** (Welch-Allyn Spot LXi interface) was selected for Com 1, the scale will automatically interface to a Welch-Allyn Spot LXi interface device to transmit weight data.



LUPE (Select Type of Printer Output – If SER1 (Com1 Mode) is set to POLL) The display will show TVPE and the current setting. If the value displayed

The display will show TYPE and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

Allowable settings are 0 or 1.

0 = Print Ticket 1 = Print Journal Line

EOP (End of Print Line Feeds – If SER1 (Com1 Mode) is set to POLL)

At the end of data sent to a printer, the scale can send a number of carriage return/line feeds to position the paper in the printer for removal or the next print.

The display will show EOP and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

Allowable values are 0 to 9.

(USB Mode) The display w

The display will show **USb** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to toggle the USB Mode between PHdC (Personal Healthcare Device Class), Cont (continuous output) or POLL (weight on demand) and then press the \checkmark key to save it and proceed to the next prompt.

This setting controls the output for the USB device port. Allowable settings are PHdC, ALLYn or SnnA.

If PHdC (Personal Healthcare Device Class) was selected for USB, the scale will transmit data using the CEN ISO/IEEE 11073 Medical / Health Device Communication Standard.

If ALLYn (Welch Allyn) was selected for USB, the scale will automatically transmit data to a Welch Allyn CVSM Device when the weight on the scale stabilizes and the Allyn CVSM Device when the weight on the scale stabilizes and the Allyn (STABLE) annunciator turns on. (Requires device to have an activated license. Must purchase Detecto WACONNECT)

If SnnA (SMA, Weight-On-Demand) was selected for USB, and the scale is connected to a computer for transmission of weight data to a PC-based EMR (electronic medical record) software program, it will transmit a single set of weight data each time the computer sends a weight request "ENQ" (hex 05) or a SMA weight request "W".

Е ЗРЕ

(Select Type of SMA Output – If USb (USB Mode) is set to SnnA)

The display will show TYPE and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

Allowable settings are 0 or 1.

0 = Print Ticket 1 = Print Journal Line

EOP (End of Print Line Feeds – If USb (USB Mode) is set to SnnA)

At the end of data sent to a printer, the scale can send a number of carriage return/line feeds to position the paper in the printer for removal or the next print.

The display will show EOP and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

Allowable values are 0 to 9.

YFAC (YEAR)

The display will show **YEAr** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This is the current year setting of the real-time clock. Allowable values are 2015 to 2099.

(MONTH)

The display will show **nntH** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{1}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This is the current month setting of the real-time clock. Allowable values are 1 to 12.

1 = January	5 = May	9 = September
2 = February	6 = June	10 = October
3 = March	7 = July	11 = November
4 = April	8 = August	12 = December

68Y

(DAY)

The display will show **dAY** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This is the current day setting of the real-time clock. Allowable values are 1 to 31.

(HOUR)

HOUr The display will show **HOUr** and the current setting. If the value displayed is acceptable, press the \rightarrow key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \rightarrow key to save it and proceed to the next prompt.

This is the current hour setting of the real-time clock. Allowable values are 0 to 23.

NOTE: The hour is entered in a 24-hour format. When entering the hour after noon (12:00 PM), you must add 12 to time. For example, 3:00 PM would be entered as 15.

(MINUTE)

The display will show **nnIn** and the current setting. If the value displayed is acceptable, press the \rightarrow key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \rightarrow key to save it and proceed to the next prompt.

This is the current minute setting of the real-time clock. Allowable values are 0 to 59.



SEC (SECONDS) The display

The display will show **SEC** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This is the current seconds setting of the real-time clock. Allowable values are 0 to 59.

▲ **NOTE:** The following two parameters are not used with the Model 6880DS scale. Press the → key to save the setting displayed and proceed to the next prompt.

HECL (Sonar Height Calibration)

The display will show **HtCL** and the current setting **no**. Press the \leftarrow key to save the setting and proceed to the next prompt.

G HF (SENSOR HEIGHT)

The display will show **S Ht** and the current setting. Press the \leftarrow key to save the setting and proceed to the next prompt.

HOLD TIME)

This setting is used by the scale to hold a stable user weight for a desired amount of time. For example, if a value of 5 seconds is used, then when the scale locks onto a stable user weight, it will remain locked for 5 seconds before automatically releasing the weight.

The display will show **Hold** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

This setting controls the auto-locking feature. Allowable values for hold time are 0 to 20.

CALIBRATION

The display will show **CAL** and the current setting **no**. If the scale has been previously calibrated and you wish to skip calibration and proceed to the **tYPE** (Scale Model) prompt, press the \checkmark key and the previous calibration will be retained.

To begin calibration, press the \hat{D} key to select **YES** and then press the \leftarrow key. After pressing the \leftarrow key, the display will change to **LOAd**.

Setup & Calibration (cont.)

(LOAD CALIBRATION WEIGHT)

With the display showing **LOAd**, perform the following steps:

- 1. Make certain the scale platform is empty and free of debris.
- 2. Place the desired amount of calibrated test weights on the scale platform. A minimum of 50% of scale's capacity is required. However, 70% to 100% is recommended.
- 3. Press the 🖊 key.
- 4. If the value displayed is acceptable, press the ← key again. Otherwise, determine the exact amount of test weight placed on the scale platform and then using the D or I keys select the test weight amount.
- 5. Verify that the numbers selected are the same as the amount of the test weight and then press the key.
- 6. Starting at the left and preceding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will proceed to the next prompt.

After a moment, the display will change to **UnLd**.

- 1. Remove the test weights from the scale platform and then press the \checkmark key.
- 2. Starting at the left and preceding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the calibration factor will be saved and the display will proceed to the next prompt.

 \triangle **IMPORTANT:** During the time the dashes are appearing on the display, ensure that the loaded (or empty) scale is stable.

Gravity Compensation) Gravity compensation acc

Gravity compensation accounts for latitudes and elevations that are different from where the scale was calibrated. In order to calculate the value for this parameter, use the gravitational constant of the location where the scale was calibrated divided by the gravitational constant of where the scale will be installed:

Gravitational Constant (Calibration location)

------ = value

Gravitational Constant (Operation location)

This should give you a value close to 1 that you can enter in to compensate for variation in gravity due to elevation/latitude.

The display will show **GrAu** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to select a new value and then press the \checkmark key to save it and proceed to the next prompt.

Allowable values for GrAu are 0.000 to 2.000.

NOTE: The default value is 1.000, which means there is no gravity compensation.

LAPPE (Scale Model) This selections

This selection sets the default settings and operation of the scale and should be set to **APE/X**. The **CUSt** (custom) selection is not applicable at this time.

The display will show **tYPE** and the current setting. If the value displayed is acceptable, press the \checkmark key. Otherwise, press the $\cancel{1}$ or $\cancel{2}$ keys to toggle the Scale Model between **APE/X** (apex[®]) or **CUSt** (custom, not applicable at this time) and then press the \checkmark key to save it.

You will be returned to the CAP prompt, the current Scale Capacity setting.

 \triangle **NOTE:** If your scale is the model 6880DS equipped with the Redbird Wi-Fi and Bluetooth (BLE) wireless transmitter, additional setup prompts will be shown after selecting the **tYPE** setting.

Proceed to the Bluetooth Low Energy (BLE) section of this manual (page 27) for guidance through setup and operation of the Bluetooth (BLE) wireless transmitter features. Otherwise, setup and calibration are complete.

Setup and Calibration is Complete

The setup and calibration process has been completed. Press the O key to turn the scale off and then press it again to turn the scale back on. The scale is now ready for normal operation.

Data Format

(Continuous Output)

If **Cont** (continuous output) was selected, the scale will continuously transmit weight data in SMA format (see below).

POLL

(Weight-On-Demand)

If **POLL** (Weight-On-Demand) was selected and the scale is connected to a host device (computer) for transmission of weight data to a PC-based EMR (electronic medical record) software program, it will transmit a single set of weight data each time the host device (computer) sends a SMA weight request "W" or a weight request "ENQ" (hex 05). An example and explanation of the data format transmitted is shown below.

SMA Format (Cont or POLL)

This format is used if the scale is configured for **Cont** (continuous output) OR if the scale is configured for **POLL** (weight-on-demand) and the host device (computer) sends:

<LF>W<CR> or

<ENQ> (hex 05)

The scale will respond with the following SMA weight string: <LF>S1GM^DDDDDDDDDDUUU<CR>

Where:

LF =	Line Feed	Line feed character (hex 0A)
S =	Status	O = Over Cap, Z = Center Zero,
U =		Below Zero, E = Error
1 =	the number 1	
G =	Mode of operation	G = Gross, N = Net, T = Tare
M =	Motion bit	M = Motion, " "(blank) = Settled (no motion)
^ =	Space	
DDDDDDDDD =	Weight	Weight with decimal point if necessary
UUU =	Units	e.g.lb,kg
CR =	Carriage Return	Carriage Return (hex 0D)

Event Counter

Your Attendant Bluetooth Digital Chair Scale has been designed with an Event Counter type of security seal. When selected, the scale will display two numbers representing the Calibration and Configuration counters.

Calibration Counter (CAL)

The calibration counter is incremented when a value in the calibration part of setup is changed (CAP, int, dEC, Sr, Unit, FiLt, nnOt, EURO, CAL, GrAu, TYPE). The counter is only incremented one time even if more than one parameter is changed each time through setup.

Configuration Counter (CFg)

The configuration counter is incremented when a value in the configuration part of setup is changed (PUO, Otr, SEr1, SEr2, USb, YEAr, nntH, dAY, HOUr, nnIn, SEC, S Ht, Hold). The counter is only incremented one time even if more than one parameter is changed each time through setup.

To Review the Event Counter:

- 1. Press the $\mathbf{\Phi}$ key to turn the scale on.
- 2. The scale will perform a display test (turn on all segments and annunciators) and then change to the show the software revision for a few seconds.
- 3. Next, the display will change to the Weight Display with the ⇒0 (ZERO) and ▲ (STABLE) annunciators turned on to show a stable, center-of-zero weight condition.
- 4. Press and hold the key.
- 5. The display will change to show all dashes and then the software revision.
- 6. Release the key.
- 7. The display will change to show **CAL** (Calibration Counter) on the small upper seven-segment display and up to a 3-digit number on the large lower seven-segment display for approximately two (2) seconds.
- 8. Next, the display will then show **CFg** (Configuration Counter) on the small upper seven-segment display and up to a 3-digit numbers on the large lower seven-segment display for approximately two (2) seconds and then change to show all dashes.

▲ **NOTE:** If your scale is model 6880DS, additional information for Wi-Fi and Bluetooth (BLE) settings will be shown after the Configuration Counter. Refer to the Bluetooth Low Energy (BLE) section for instructions.

- 9. To return to the normal operation, press the 🌆 key.
- 10. Otherwise, press the ${\bf \bullet}$ key to turn the scale off.



Print Ticket Format

If 0 = Print Ticket was selected for the **tYPE** prompt when **SER1** (Com1 Mode) is set to **POLL** or **USB** (USB Mode) is set to **SnnA**, the following format will be used:

If EUrO (OIML) is set to NO If EUrO (OIML) is set		ML) is set to YES	
Date	mm/dd/yy	Date	dd/mm/yy
Time	hh:mm	Time	Hh:mm
Weight	wwwwww uu	Weight	wwwwww uu
Height	hhhhh vv	Height	hhhhh vv
BMI	bbbb	BMI	bbbb

Where:

mm/dd/yy	=	month/day/year
dd/mm/yy	=	day/month/year
hh:mm	=	hours:minutes
wwwwww	=	weight
uu	=	weight units
hhhhh	=	height
VV	=	height units
bbbb	=	body mass index

Print Journal Line Format

If 1 = Print Journal Line was selected for the **tYPE** prompt when **SER1** (Com1 Mode) is set to **POLL** or **USB** (USB Mode) is set to **SnnA**, the following format will be used:

If EUrO **(OIML)** is set to NO mm/dd/yy, hh:mm, wwwww uu, hhhhh vv, bbbb

If EUrO **(OIML)** is set to Yes dd/mm/yy, hh:mm, wwwww uu, hhhhh vv, bbbb

Where:

=	month/day/year
=	day/month/year
=	hours:minutes
=	weight
=	weight units
=	height
=	height units
=	body mass index

Bluetooth Low Energy (BLE)

The Attendant Bluetooth Digital Chair Scale has a wireless transmitter inside the weight indicator enclosure that can be configured for Bluetooth Low Energy (BLE).

Features Available via BLE

Device Information Service

- Manufacturer Name
- Model Number
- Software Revision

Battery Service

• Battery Level Percentage

Weight Scale Service

- Weight Measurement
- Weight Scale Feature

Enable Bluetooth (BLE) Networking

NOTE: Default Network Settings are: **y F1** = **OFF**, **bLE** = **OFF**, and **dHCP** = **On**.

To enable Bluetooth (BLE) networking:

- 1. Press the O key to turn the scale on.
- 2. Press and hold the $\Rightarrow 0 \Leftrightarrow$ keys until the display shows the prompt **CAP**.
- 3. Press the key until the prompt **bLE** is displayed.
- 4. If the **bLE** selection is set to OFF, use the \hat{D} or \notin keys to change the selection to **On** and press the key.
- 5. Press the 🕑 key to turn the scale off and then press it again to turn the scale back on.
- 6. The scale is now ready to pair with a Bluetooth-capable device.

▲ **IMPORTANT!** If an attempt is made to turn the Bluetooth (BLE) off when a device is connected to the scale, the display will show the error message **bLE** (in the smaller upper seven-segment display) and **E-OFF** (in the large lower seven-segment display). This message will be shown until a key is pressed. Note that at this time, the Bluetooth (BLE) is still on, only the message has been cleared. In order to turn the Bluetooth (BLE) off, the device must be disconnected from the scale or the scale must be turned Off and back On.

Bluetooth Pairing

XXXX represents the last four digits of the Attendant Bluetooth Digital Chair Scale serial number. The serial number of the unit is located on a label between the battery compartments behind the seat. ##:##:##:##:##:##:## represents the MAC address of the BLE wireless transmitter in the scale weight indicator.

When a stable weight reading is achieved, and if the scale is paired with a Bluetoothcapable device, the reading will transmit when the device sends a request to receive data.

Error & Status Displays

The scale is equipped with diagnostic software that tests various portions of the scale's circuitry and verifies proper operation. Should a problem be detected, an error or status message will be displayed. The following lists these messages and their meaning.

Display	Meaning
→0 ←	This symbol appears when the scale weight reading is at center of zero.
0	This symbol appears if the weight has been manually locked by pressing the $\left\ \mathbf{h} \right\ $ key.
	This message appears if the 🌆 key has been pressed without any weight on the scale.
0C8P	OCAP The weight on the scale weight exceeds scale capacity.
ErrOF	ErrOF This message appears if there are too many characters to display. For example, attempting to display a negative number greater than –9,999 or a positive number greater than 99,999.
ίο 68εε	When the batteries are near the point they need to be replaced, the scale display will show Lo on the small upper seven-segment display and BAtt on the large lower seven-segment display. Note that when the battery voltage drops too low for accurate weighing, the scale will automatically shut off and you will be unable to turn it back on.
САС 16	CALIB The scale requires calibration. The weight will show as dashes. Consult your scale service representative.
RdErr	
ErrAL -	Consult your distributor.
ErrRH_	

Problem	Possible Solutions
Display does not turn on:	 AC Operation Is AC power supply fully inserted into wall receptacle? Check wall receptacle for proper AC power. Try another electrical appliance in same receptacle. Does it work? Check circuit breaker. Has there been power failure? Battery operation: Check if batteries are installed and correctly. If Alkaline, remove old batteries, and replace with new ones. If Ni-Cad or NiMH, remove discharged batteries and replace with fully charged ones. Place discharged batteries in an external charger to recharge.
Incorrect weight is displayed	Ensure that scale platform is not touching an adjacent object. Have proper operation procedures been followed?
Weight is not displayed	Refer to Error and Operation Messages.

Before You Call For Service



Care & Cleaning

Care & Cleaning

Carefully inspect the device prior to each use. Do NOT use if the device appears to be damaged or not functioning correctly

- Do not submerge the scale in water, pour or spray water directly on it to clean. The scale is not waterproof and covering it with water will damage it and void the warranty.
- Always remove power before cleaning.
- Do not use wire brushes, abrasives or cleaning tools, such as steel pads and scrapers, which will scratch the painted surface. Instead, use soft cloths or plastic scouring pads for cleaning.
- When possible, use treated water. Hard water can leave behind deposits. Soft water is much gentler on the painted steel's surface.
- Avoid the use of acetone, thinner or other volatile solvents, and abrasive type cleaners for cleaning. If required, a mild solvent, such as mineral spirits, can be used to remove oil, grease, tars, wax and similar substances. Use a cloth dampened with mineral spirits and apply only to areas that are contaminated. Follow up the use of this mild solvent with detergent cleaning and rinsing.

Limited Warranty

We offer to you, as the original purchaser, a warranty for the Attendant Bluetooth Digital Chair Scale. Our warranty applies for the limited warranty period stated below. If any device or device part listed below is defective in material or workmanship during the applicable limited warranty period, we will repair or replace it at our cost. Please note that the decision to repair or replace a device or device part will be at our discretion. Our warranty applies only if the device is properly maintained by the original purchaser for normal, indoor use and does not cover normal wear and tear, modification of the device, or damage caused by abuse, improper use, failure to maintain, use which exceeds the published device limitations, or the combination of any device with another product. In addition, our warranty does not cover fading, characteristics or natural variations in fabric, texture, colorfastness, stains, spills, or exposure to chemicals, odors, heat or light. In certain cases, we may provide you repair or adjustment instructions and/or replacement parts, and ask you to perform a repair or adjustment or replace a defective part.

Our warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state. Please note that our limited warranty period begins when we ship the device to you. The limited warranty period and our obligations under the warranty end once you transfer the device to someone else, or at the end of the applicable limited warranty period identified below, whichever is earlier.

Product/Part	Warranty Period (Parts)	Anticipated Usable Device Life
Attendant Bluetooth Digital Chair Scale, Model 6880DS	3 years	3 years

Anticipated Usable Device Life is based on normal use with proper maintenance, cleaning and storage. You should still inspect, monitor and care for the device as described in this guide, as the device may need to be replaced sooner than anticipated in particular situations.

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Customer Service

If you have any questions about the Digital Chair Scale you have purchased or would like to request warranty service, please contact your distributor.



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