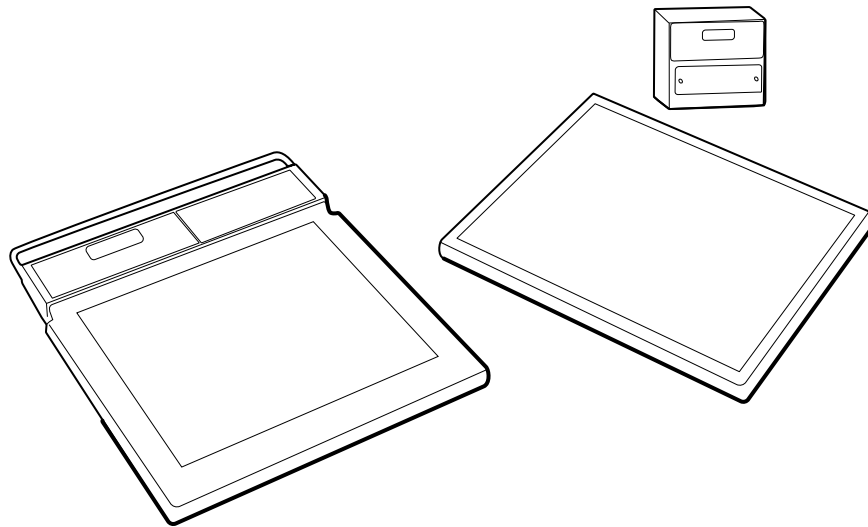


Welch Allyn Non-Masted Scales



Directions for use

Models 5102, 5125, 5127

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This manual applies to REF 901110 NON MASTED SCALES.

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Contents

Introduction	1
Intended use	1
Indications for use	1
Symbols	1
About warnings and cautions	2
Controls and indicators	4
Assembly and setup	7
Assembly instructions	7
Mount the control panel for model 5102	7
Enter custom setup mode	8
Scale operation	11
Power options	11
Audible beeps	11
Weighing procedure	12
Storage, cleaning, and maintenance	13
Storage	13
Cleaning	13
Battery replacement	13
Maintenance	13
Troubleshooting	14
Appendices	15
Specifications	15
Product configurations	16
Approved accessories	16
Warranty	16

Introduction

Intended use

The Welch Allyn Non-Masted Scales are intended to be used by clinicians for weighing patients up to 880 pounds (400 kg) for model 5102, up to 660 pounds (300 kg) for model 5125, and up to 1000 pounds (454 kg) for model 5127.

Indications for use

The Welch Allyn Non-Masted Scales are used by clinicians to weigh patients. An optional height gauge is available on some models.

Symbols

Documentation symbols



WARNING The warning statements in this manual identify conditions or practices that could lead to illness, injury, or death. Warning symbols will appear with a grey background in a black and white document.



Caution The caution statements in this manual identify conditions or practices that could result in damage to the equipment or other property, or loss of data.



Consult Directions for Use

Shipping, storing, and environment symbols



Temperature limit








Keep dry











Separate collection of Electrical and Electronic Equipment. Do not dispose as unsorted municipal waste.



Fragile

	Humidity limitation		Atmospheric pressure limitation
	This way up		Stacking limit by number
	Recyclable		

Miscellaneous symbols

	Manufacturer		Reorder Number
	Product Identifier		For indoor use only
	Serial Number		Prescription only or "For Use by or on the order of a licensed medical professional"
	Battery		Power

About warnings and cautions

Caution statements can appear on the Welch Allyn Non-Masted Scales, the packaging, the shipping container, or in this *Directions for use*.

The Welch Allyn Non-Masted Scales are safe for patients and clinicians when used in accordance with the instructions and caution statements presented in this *Directions for use*.

Before using the device, you must familiarize yourself with all cautions, with the steps to power up the device, and with the sections of this *Directions for use* that pertain to your use of the device. In addition to reviewing the general cautions presented in the next section, you must also review the more specific cautions that appear throughout the manual in conjunction with setup/startup, operation, and maintenance tasks.

- Failure to understand and observe any warning statement in this manual could lead to patient injury or illness.
- Failure to understand and observe any caution statement in this manual could lead to damage to the equipment or other property, or loss of patient data.

General warnings and cautions



WARNING Patient injury risk. Make sure the scale is properly cleaned between measurements.



WARNING Patient or operator injury risk. Make sure the scale is positioned on a stable surface and in a way to avoid shock or bumping hazards.



CAUTION Make sure that you routinely perform general maintenance and equipment safety checks on your scale. Remove the scale from service when you notice damaged power cords.

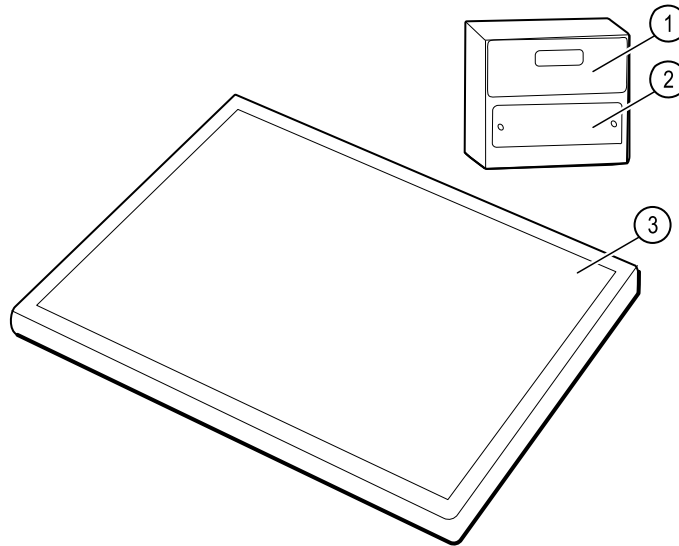


CAUTION Make sure the scale is set in the proper measurement units for your facility. Make sure you record the measurement units as they are displayed.

Controls and indicators

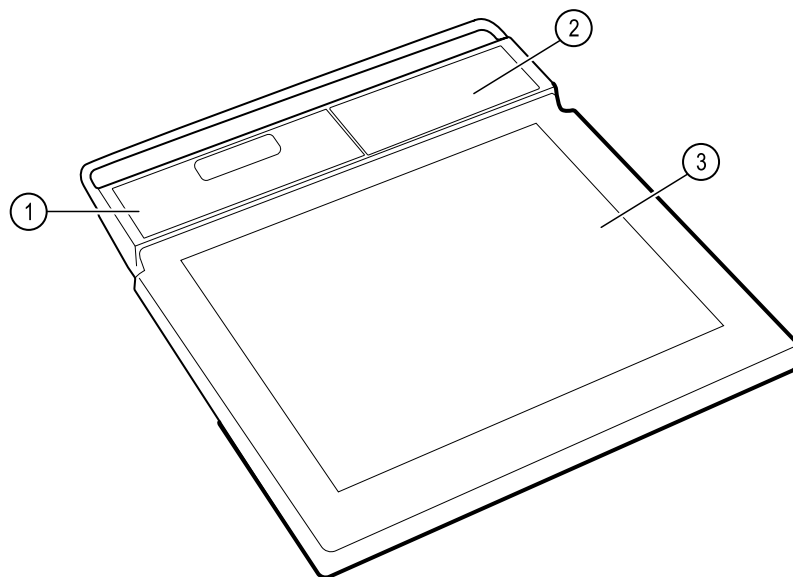
Scale

Model 5102



-
- 1 Front panel
 - 2 Battery access door
 - 2 Weighing platform
-

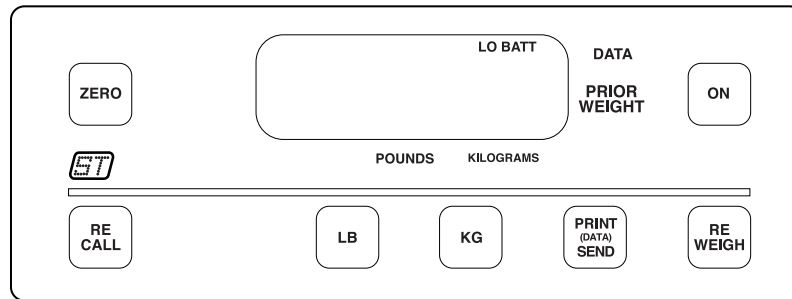
Models 5125 and 5127



-
- 1 Front panel
-

- 2 Battery access door
 - 3 Weighing platform
-

Front panel buttons



Button	Function
ZERO	Press this button to reset the scale to zero.
ON	Press this button to turn on the scale.
ST	Press this button in conjunction with ON to enter the setup mode.
RECALL	Press this button to recall the previously stored scale reading.
LB	Press this button to display the weight in pounds.
Note	This button is not present if you purchased a scale with the kilogram-only option.
KG	Press this button to display the weight in kilograms.
PRINT (DATA) SEND	Press this button to print the current weight. On models equipped with a RS-232 port, pressing this button when the scale is connected to a computer sends the current measurement to the computer.
REWEIGH	Press this button to retake the patient's weight.

Assembly and setup

The scale is fully assembled at the factory and tested. In some instances, the scales are shipped assembled. However, due to size and shipping restrictions, most scales are partially disassembled. If assembly is required, it can be done with common hand tools. When special tools are required, they are supplied with the scale. Ensure that all bolts and fasteners are securely tightened.

Use the following instructions to assemble and setup your scale for use.

Assembly instructions

The scale is shipped with batteries installed and is ready for use.

1. Carefully remove all parts from the shipping carton and inspect the components for shipping damage.
2. Place the scale on the floor.
3. Press **ON** to turn on the scale.
The scale sounds one beep.
4. Wait for the scale to display **00.0**.
The scale sounds two beeps.
5. The scale is ready for use.

Mount the control panel for model 5102

Model 5102 has a separate control panel that can be mounted to a wall.

1. Use the supplied hex wrench to detach the mounting bracket from the control panel by removing the two top screws on both sides of the control panel.
2. Mount the bracket to the wall with mounting hardware that is suitable for your wall type.

Note Mounting hardware is not supplied with the scale.

3. Attach the control panel by re-installing the screws removed in Step 1.
4. Place the weighing platform in the desired location.

Note The platform should be six to ten inches away from the wall for proper operation.

5. Connect the transducer cable between the weighing platform and the control panel.

6. Insert the optional power supply into an electrical outlet.

Enter custom setup mode

1. Make sure the scale is powered down.
2. Press and hold **ST** while pressing **ON**.
3. Once the scale powers up, press and release **ST** five times.

The scale displays **Set-UP** and produces a series of four long beeps.

Set the options

Enter the custom setup as described.

Press **ST** to scroll through the custom setup options.

The options displayed with each press are as follows:

Press the setup mode select button to turn these options **On** or **OFF**.

Note Options indicated with an asterisk (*) require an additional press of **ST** to change the value.

Option displayed	Feature
SOft	This option displays the software version of your scale.
dAtE	This option displays the release date of the software. The format is MM/DD/YY.
SCALE	This option displays the model number of the scale.
AutOFF*	This displays the number of seconds before the scale turns off when operating on battery power. The Cont value prevents the scale from turning off automatically.
AC con*	This option causes the scale to remain on when plugged in to AC power.
rES	This option allows you to change the resolution of weight. Pressing ST switches between the following options: 0.1 pounds / 0.05 kilograms 0.1 pounds / 0.1 kilograms 0.2 pounds / 0.1 kilograms 0.5 pounds / 0.2 kilograms 1 pound / 0.5 kilograms
UnitS*	This option allows you to change the displayed weight unit. Note Do not change the scale units if you have purchased the kilogram-only option. KILOS* This option allows the weight to display in kilograms. POUNDS* This option allows the weight to display in pounds.
bEEPEr*	This option determines the audible signal that occurs when a front panel button is pressed.
rECALL	This option allows you to turn ON or OFF the RECALL button functionality.
rS-232	Detailed instructions for this feature are available from Welch Allyn. Go to http://www.welchallyn.com/en/other/contact-us.html to find your local representative.

OutPut*	<p>This option displays the current data port output option. Detailed instructions for this feature are available from Welch Allyn. Go to http://www.welchallyn.com/en/other/contact-us.html to find your local representative.</p> <p>Set the value to OFF to disable the optional internal printer or the RS-232 port.</p>
PrtUnt*	<p>This option determines whether pounds or kilograms are displayed on a printout.</p> <p>If the pounds and kilograms indicators are illuminated on the control panel, the printed output is determined by whichever unit is selected on the control panel.</p> <p>If the kilogram indicator is illuminated, it will only print in kilograms, regardless of the unit is selected on the control panel.</p> <p>If the pounds indicator is illuminated, it will only print in pounds, regardless of the unit is selected on the control panel.</p>
PrtOPT*	<p>Press RECALL to choose between the following options:</p> <p>PniPrt: The current weight is printed when PRINT is pressed on the control panel.</p> <p>AutPrt: The current weight is automatically printed when a weight reading occurs.</p>
bAud*	<p>This option allows you to set the baud rate. Values are 1200, 2400, 4800, 9600, and 19200.</p>
pArity*	<p>This option allows you to change the parity between the following options:</p> <p>Off: No parity, 8 data bits</p> <p>Odd: Odd parity, 7 data bits</p> <p>EuEn: Even parity, 7 data bits</p>
StPbit*	<p>This option allows you to change the stop bits between the following options:</p> <p>1 bit: One stop at the end of a word</p> <p>2 bits: Two stops at the end of a word</p>
rtS.ctS*	<p>This option allows you to turn On for the printer or Off for RS232 serial transmissions.</p>
Prtbtn*	<p>This option allows you to turn On or Off the front panel PRINT button.</p>
rtEPrt*	<p>This option allows you to turn On or Off the enabling of printing from a remote location by connecting the receive line to the ground.</p>
PC brd*	<p>This option displays the model number of the printed circuit board. A second press of ST displays the revision of the printed circuit board.</p>
SEt-UP	<p>This option is displayed when you have cycled through all the options. Press and hold ON to power down the scale.</p>

Scale operation

Power options

The scale can be used with battery power or with AC power.

Battery power



CAUTION Use only size C disposable alkaline batteries. The use of any other battery will void the warranty.

Press **ON** to turn on the scale.

The scale automatically turns off after 45 seconds of non-use when operating on battery power.

The **LO BATT** indicator displays when the battery power is low.

bAttrY appears on the control panel when the batteries are unable to properly power the scale.

Replace the batteries when either of these messages are displayed.

AC power

When plugged in, the scale continuously runs on AC power automatically.

The scale switches to battery power when AC power is not present.

Audible beeps

The following beeps occur when using the scale.

Sound	Meaning
One beep	Acknowledgment of a button press.
Two beeps	The scale is zeroed and ready to take a measurement.
Three beeps	The weight reading is obtained and displayed.
Four long beeps	The battery is too weak to operate the scale. The scale has entered setup mode.

Weighing procedure

1. Press **ON** to turn on the scale.
The scale sounds one beep.
2. Wait for the scale to display **0.0**.
The scale sounds two beeps.
3. Place the patient on the scale and make sure that his or her weight is evenly distributed.
The scale sounds three beeps and the patient's weight is displayed.
4. If necessary, press **REWEIGH** to perform another weight measurement.
5. If necessary, press **RECALL** to display the previously stored scale measurement.

Note A measurement is stored in the scale until a new weight is taken and zeroes out.

A stationary display of - - indicates a negative weight. Make sure that there is nothing on the scale and press **ZERO** to set the zero.

If **O-LOAD** is displayed, the capacity of the scale has been exceeded.

Storage, cleaning, and maintenance

Storage

The scale should be stored in a convenient storage facility or closet. Make sure to not leave the scale in an area where someone could trip on it or run into it.

Cleaning

1. Clean the scale at least once per day, and the optional handrail after each use.
2. Use one of the following products when cleaning your scale:

70 percent isopropyl alcohol

PDI Sani-Cloths®

Battery replacement



CAUTION Use only size C disposable alkaline batteries. The use of any other battery will void the warranty.

1. Using a screwdriver, remove the three fasteners on the access door located on the bottom of the control panel housing and remove the door.
2. Install new batteries in the battery holder. Make sure to follow the polarity instructions.

Note In instances where the scale is not used often, replace the batteries annually.

3. Re-attach the access door.

Maintenance

Routinely perform the following preventive maintenance to keep your scale in working order.

1. Check the calibration annually or as required.
2. Inspect the scale for cracks or loose mounting hardware. Replace or repair as necessary.
3. Visually inspect the scale enclosure for damage or loose or missing hardware. Replace or repair as necessary.
4. If equipped, inspect the AC line cord for abrasions or other signs of wear.

5. Do not expose the scale to excessive water or moisture.
6. Do not store the scale where heavy objects can be placed on it.
7. Replace the batteries annually or as required.
8. Do not service or perform maintenance while the scale is in use with a patient.

Troubleshooting

This section presents tables of information to help you troubleshoot issues with the scale.

To use these tables, locate the specific problem with your scale in the left column of the table. The remainder of the row explains possible causes and suggests actions that can resolve the issue.

Issue	Possible cause	Suggested action
The weight measurement is not accurate	There may be a mechanical obstruction on the platform	Make sure the platform is not touching a foreign object or has anything restricting its downward motion.
The weight measurement takes too long to display	The platform may be in motion	Wait for the platform to settle.
The scale displays O-LOAD	The object on the scale may be larger than the maximum value allowed	If the weight value is within the specified range, contact your service department.
The measurement does not change when weight is applied to the scale	The load cell transducer, connector, or cable may be damaged	Contact your service department.
The scale buttons are not responding	The buttons may be damaged	Check for visible signs of damage. Contact your service department.
The error message E-FAIL is displayed	The scale's memory has failed	Contact your service department.
The error message r-FAIL is displayed	The scale's memory has failed.	Contact your service department.
The error message A-FAIL is displayed	The scale's memory has failed	Contact your service department.
The error message C-FAIL is displayed	The scale's memory has failed.	Contact your service department.

Appendices

Specifications

Item	Specification
Scales	5102, 5125, 5127
Resolution (factory default)	0.1 lb / 100 g
Weighing range	5102: 880 lb (400 kg) 5125: 660 lb (300 kg) 5127: 1000 lb (454kg)
Readout	Large, bright light-emitting diode display. Selectable weight displayed in pounds or kilograms. Indicator light to show selected units.
Power source	Battery <ul style="list-style-type: none"> 6 C alkaline batteries Power adapter <ul style="list-style-type: none"> Medical grade UL listed external power supply Nominal input voltage: 100-240V AC $\pm 10\%$ Nominal input frequency: 50/60 Hz Nominal input current: 0.3-0.15Arms @ max load Standby power consumption at U_{in}: 230V AC : $\leq 0.1W$ Nominal output voltage: U_{out} : 12V DC +5% / -5% U_{Br} : $\leq 150mVpp$ Nominal output current: I_{out} : 1000mA
Platform dimensions	5102: 18 in. x 14 in x 1.25 in. 5125: 12 in. x 17 in. x 1.25 in. 5127: 17 in. x 22 in. x 1.25 in.

Product configurations

The Welch Allyn Non-Masted Scales are available in the following configurations:

Model 5102, Physician's Stand-On Scale

Model	Description
5102-K	Physician's Stand-On Scale, kg only
5102-X	Physicians Stand-On Scale, standard weight

Model 5125, Portable Stand-On Scale

Model	Description
5125-K	Portable Stand-On Scale, kg only
5125-X	Portable Stand-On Scale, standard weight

Model 5127, Bariatric Portable Stand-On Scale

Model	Description
5127-K	Bariatric Portable Stand-On Scale, kg only
5127-X	Bariatric Portable Stand-On Scale, standard weight

Approved accessories

Part number	Description
341001	Power adapter

Warranty

Welch Allyn will warranty the weight scale to be free of defects in material and workmanship and to perform in accordance with manufacturer specifications for the period of one year from the date of retail purchase.

The warranty period shall start on the date of purchase. The date of purchase is: 1) the invoiced ship date if the device was purchased directly from Welch Allyn, 2) the date specified during product registration, 3) the date of purchase of the product from a Welch Allyn authorized distributor as documented from a receipt from said distributor.

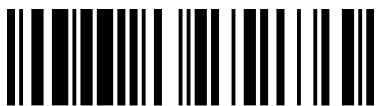
This warranty does NOT cover damages caused by misuse or abuse, including but not limited to:

- Failure caused by unauthorized repairs or modifications
- Damage caused by shock or dropping during transportation
- Damage caused by improper use of the power supply

- Failure caused by improper operation not consistent with the instructions stated in this *Directions for use*

Should this device require maintenance (or replacement at our option) under warranty, contact your local Welch Allyn representative: <http://www.welchallyn.com/en/other/contact-us.html>

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