



E: sales@ncountersonline.com

W: ncountersonline.com

T: +61 3 9939 0400

Operation Manual

Essential Load Unit

2020

Table of Contents	Page
Control Unit Specifications.....	3
Before You Start	3
Indications and Intended Use.....	3
Essential Load Unit.....	3
Warranty.....	3
Returns / Repairs.....	3
Care of the Control Unit	4
Installing the Battery	4
Cleaning	4
The Control Unit: What's what?	4
Using the Essential Load Unit.....	5
Before Turning on the Control Unit.....	5
Set Target Range.....	6
FAQs.....	6

Control Unit Specifications

Rated power source	9v DC
Format	Battery
Max current consumption	44mA
Dimensions (L x W x H)	12.55cm x 7cm x 2.4cm 4.94 in x 2.75 in x 0.94 in
Weight (without battery)	116g

Before you start

- When storing or using this device, do not allow it to encounter liquids or intense heat. This may damage the unit and its accessories. Smoke and overheating could result from contact with liquids.
- This control unit and sensor pads are **not** single use. The insoles are designed for single use. This Essential Load Unit is for commercial use only.

Indications and Intended Use

The Essential Load Unit gives immediate audio visual feedback on partial weight bearing for clients, including those with an Acquired Brain Injury or following Orthopedic Surgery

Essential Load Unit

Includes the following items:

Carry case with foam inserts
 Operation Manual
 Essential Load Control Unit & Belt Clip
 Six sizes of insoles for taking sensors
 Two sensor pads. Heel and Forefoot
 Headphone
 Curly Cable
 Double Adaptor.

Warranty

- This unit comes with a 12-month warranty on parts from date of purchase. See our website for more details.
- Wherever possible a replacement unit will be provided while your unit is being repaired

Returns / Repairs Policy

For all returns or repairs you must have a return number given by nCounters attached to it.

The item should be sent to:

nCounters
 PO BOX 2336
 KEW VICTORIA 3101
 AUSTRALIA

Care of the Control Unit

Installing the battery

- Remove the back panel of the enclosure and insert the battery with the plus (+) and minus (-) poles pointing in the designated direction.
- Use one 9 Volt (PP3) battery. A rechargeable 9V battery maybe used.
- Remove the battery if the control unit will not be used for a month or longer.
- If the battery is incorrectly replaced, the control unit may not function.
- In the event of battery leakage, wipe the control unit completely clean and install a new battery.

Cleaning

- All surfaces of this system except the insoles are non-porous and should be cleaned between each client, using a disinfectant wipe

The Control Unit

What's what?

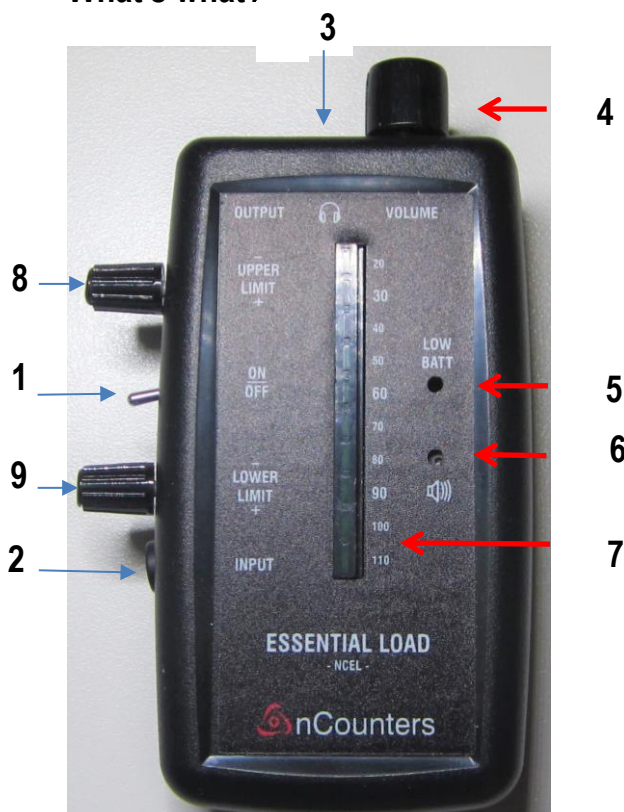
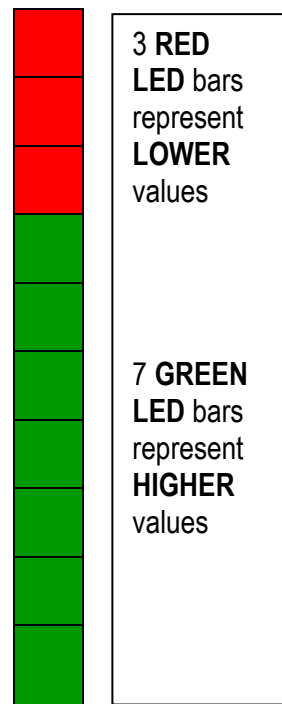


Figure 1
Control Unit Front Panel

1. **ON / OFF switch**
2. **INPUT socket**
For connecting the two sensor pads via curly cord and adaptor
3. **Headphone Socket**
4. **Volume Control**
5. **Low Battery LED**
Battery needs to be *immediately* replaced or recharged when red LED comes on.
6. **Speaker**
7. **10 LED BAR DISPLAY**



8. **UPPER LIMIT**
Dial to be used by therapist to establish upper limit of target range -See FAQs to see how this dial can be used for getting feedback when target is reached
9. **LOWER LIMIT**
Dial to be used by therapist to establish lower limit of target range.

Using the Essential Load Unit

Before turning on the control unit:

Choose the correct size insole for the user. Left or Right. Your unit comes with six sizes of insoles. These should become the user's to keep. You can order more insoles via our website, or by contacting us by email at ncounters3105@gmail.com.



Replacement or extra insoles are available in pairs from size 35 – 47 (Euro – Sizing). All insoles are designed for taking the two sensor pads.

Take the heel and forefoot sensors.



Attach them on the Velcro on the heel and forefoot underneath your insole.



Remove existing insole.

Put nCounters insole with sensors inside a runner (sneaker).



User places foot into shoe. Plug each of the two cables to the double adaptor, connected to the curly cable.



Connect the plug to the input socket of the Control Unit.

Ask user to press up and down on insole for 10 seconds to condition the sensors.

Ask user to place foot on set of scales to get weight above which the user is to receive no feedback.



Turn on control unit using the side toggle switch. One of the green or red LEDs will come on.

Set Target Range

The therapist needs to set the correct upper and lower limits. Make sure the two dials are in the following default positions:

- Upper limit dial fully clockwise (maximum position)
- Lower limit dial fully anti-clockwise (minimum position).

Firstly, program the lower limit. Turn this Lower Limit dial clockwise until you hear a sound from the speaker simultaneously the target weight is being put through the insole.

Now get the upper limit by turning this dial anticlockwise, until you hear a sound from the speaker while weight is being put through the insole. Finesse this dial a little (by turning clockwise) to create your window.

In summary, when the client's partial weight on the insole is between the lower and upper limit values, the client will hear no sound. If the weight shift is outside these two limits, then the client will receive feedback. The sound changes and increases in pitch the further away the client gets from the target range.

Before using the headphones turn the volume control back to minimum then slowly increase until the sound is comfortable for the user.

FAQs

Q. Can I just use the heel sensor on its own?

A. Yes, If you are just using one sensor you will not need the adaptor.

Q. Can the unit be set so user gets feedback only when they reach the pre-set target?

A. Yes, turn lower limit dial fully anti clockwise and adjust upper limit dial until a sound is generated when target weight is being put through the insole.

Problems?

Please do not hesitate to contact nCounters via email at: support@ncountersonline.com or via our enquiry page [ncountersonline.com](https://www.ncountersonline.com)

