



L1128 User Manual

Software Number: 60440 Version Number: 1.0

Document Number: MAN-81255-01

Issued Date: November 2012

E: info@loadritescales.com

W: www.loadritescales.com

A solution from



www.actronictechnologies.com

© 2012 Actronic Ltd. All rights reserved. Actronic Technologies, C-Weigh, Express, Loadrite, Pro, Road Boss and X-Weigh are trademarks and/or registered trademarks of Actronic Ltd. All other trademarks and registrations are the property of their respective owners.

The software contains proprietary information of Actronic Ltd; it is provided under a license agreement containing restrictions on use and disclosure and is also protected by copyright law. Reverse engineering of the software is prohibited.





This document is copyrighted with all rights reserved. Under copyright laws, this document may not be copied in whole or in part, reproduced in any other media, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the express written permission of Actronic Ltd. Permitted copies must carry the same proprietary and copyright notices as were affixed to the original. Under the law, copying includes translation into another language.

Published in New Zealand.



IMPORTANT SAFETY INFORMATION

PLEASE READ CAREFULLY BEFORE USING THE LOADRITE™ WEIGHING SYSTEM

	<p>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</p>
	<p>WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>
	<p>CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</p>
	<p>CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.</p>



It is your sole responsibility to place, secure and use the LOADRITE™ Weighing System in a manner that will not cause accidents, personal injury or property damage. Always observe safe operating practices.

Do not install the LOADRITE™ Weighing System in a way that may interfere with the safe operation of the vehicle, or deployment of safety equipment.

Before you use the LOADRITE™ Weighing System for the first time, familiarize yourself with the system and its operation.



Do not handle the LOADRITE™ Weighing System if it is hot. Let the product cool, out of direct sunlight.

Ensure that the LOADRITE™ Weighing System is connected to a power source with the correct fitting and voltage requirements.

Do not attempt to service the LOADRITE™ Weighing System as this could result in personal injury.

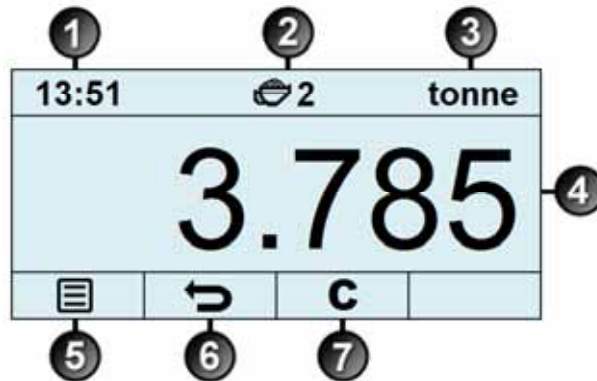


Removing LOADRITE™ Weighing System equipment or adding accessories could affect the accuracy of weighing data and your warranty.

Failure to adhere to these warnings and cautions may lead to death, serious injury or property damage. Actronic Ltd disclaims all liability for installation or use of the LOADRITE™ Weighing System that causes or contributes to death, injury or property damage, or that violates any law.

1. TOTAL SCREEN






The *Total* screen is the main screen that you will use. It displays the short total, number of bucketloads and other information.



	Section	Description
1	Clock	The current time.
2	Bucketload count	The number of bucketloads that have been weighed and added to the short total.
3	Unit of weight	The unit of weight being used. The Short total is displayed in this unit of weight.
4	Short total	The current short total of product that has been loaded.
5	Main Menu	Displays the <i>Main Menu</i> . ▶ For more information, see "Main Menu" on page 2-3.
6	Recall	Recalls the weight of the most recent bucketload. ▶ For more information, see "Recall a bucketload" on page 3-7.
7	Clear	Clears the short total.

2. MAIN MENU

The *Main Menu* provides options for configuring the LOADRITE™ Weighing System.

- ▶ To display the *Main Menu*, press  from the *Total* screen. Press  or  to scroll up or down, then press  to select an option.
- ▶ To exit the *Main Menu*, press .

Menu Option	Description
Long Total	View or clear the current long total.
Attachment	View or change the current attachment, for example, bucket or forks.
Setup	<p>Access the <i>Installer Menu</i> for advanced configuration, calibration and diagnostics.</p> <ul style="list-style-type: none"> ▶ For further information, contact your LOADRITE™ distributor. <p>View or change the following options:</p> <ul style="list-style-type: none"> ▶ time ▶ date ▶ date format ▶ screen brightness ▶ screen contrast.
Standby	Puts the Indicator into <i>Standby</i> mode.

3. THE DAY-TO-DAY WEIGHING PROCESS

The following is the basic process for day-to-day weighing with the LOADRITE™ Weighing System:

- 1) Perform a warm-up.
- 2) Zero the empty bucket.
- 3) Weigh and add each bucketload.
- 4) When you have finished loading the truck, clear the short total.
- 5) When you have finished using the LOADRITE™ Weighing System, put the Indicator into *Standby* mode.

ACCURATE WEIGHING

For maximum accuracy, ensure that:

- ▶ Check Zero is performed regularly.
- ▶ Load lifting motion is steady and smooth, with no acceleration or bounce.
- ▶ The bucket is fully rolled back during the lift.
- ▶ The loader is on level ground.

Obtaining the Best Weighing Results

Lifting speed

For best results, operate the lift lever before accelerating the engine so that the machine does not rock as it lifts, i.e. use normal revs.

Trigger point

Start the lift well below the trigger point. This ensures that all acceleration and load bounce has been eliminated well before the weighing sequence begins.

Note: We recommend that there are at least two seconds of lift before the trigger point.

Bounce

Most loaders have pneumatic tires which can cause the machine to bounce when lifting.

To minimize the effect of bounce, always operate the lift lever before accelerating the engine and start the lift well below the trigger point.

Center of gravity

The hydraulic pressure in the lifting cylinders depends on where the center of gravity of the load is. It is important that the bucket is always in the same position: fully rolled back.

3.1. HOW DO I PERFORM A WARM UP?

For best weighing accuracy, the hydraulic fluid in the lift cylinders should be at normal operating temperature. This is achieved by raising and lowering the empty bucket.


 Warm up lift 3

The above message will display if the Indicator has been turned off for more than one hour. If you see the above message, you need to raise and then lower the empty bucket past the trigger point three times:

- 1) Raise the bucket past the trigger point.
- 2) Lower the bucket past the trigger point.
- 3) Repeat two more times until the message disappears.
When the warm up has completed, the *Live Weight* screen will display.

3.2. HOW DO I ZERO THE EMPTY BUCKET?

It is necessary to periodically "zero" the LOADRITE™ Weighing System because small errors can occur due to a build-up of material in the bucket.


 **Check zero**

If you see the above message, you need to zero the empty bucket. The message will display:

- ▶ Every 15 minutes for the first hour, and
- ▶ Every 30 minutes thereafter.

Complete the following to zero the bucket:

IMPORTANT: When weighing a load, the loader must be level, and the bucket must be empty and kept fully-rolled back.

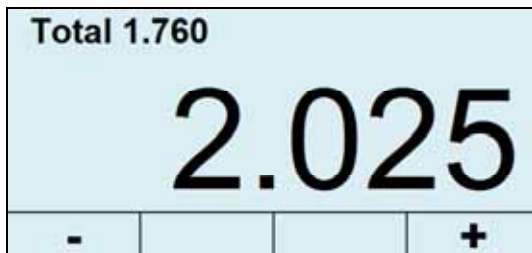
- 1) Ensure that the loader is level and the bucket is empty.
- 2) Raise the empty bucket.
- 3) Press .
The **Zero Updated** message will display, before the *Total* screen is displayed.


3.3. HOW DO I WEIGH AND ADD A BUCKETLOAD?


When the *Total* screen is displayed, bucketloads can be weighed.

IMPORTANT: When weighing a load, the loader must be level with the bucket kept fully-rolled back.

- 1) Raise the bucketload smoothly past the trigger point using constant engine revs.
- 2) The *Live Weight* screen will display the weight of the current load and the short total.



- 3) Press  to add the load.
A confirmation message will display.


Note: If  is not pressed within 8 seconds of the load being lifted past the trigger point, the weight will be discarded and the *Total* screen will display.

When the load has been added, the *Total* screen will display with the new short total and the number of bucketloads.

3.3.1. Subtract a bucketload

This function can be useful when only part of a final load of loose material is required. Weigh and add a full load, then tip the amount required into the truck. Then re-weigh and subtract the amount remaining by completing the following:

IMPORTANT: When weighing a load, the loader must be level with the bucket kept fully-rolled back.

- 1) Raise the load smoothly past the past the trigger point.
The *Live Weight* screen will display the weight of the current load and the short total.
- 2) Press  to subtract the load.
A confirmation message will display. The amount will be subtracted from the short total. The *Total* screen will display.

3.3.2. Recall a bucketload



The *Recall* function is equivalent to lifting the same load again and can be used to correct mistakes. The last load can be recalled if it has been added or subtracted.

To recall a previously lifted weight, complete the following:

- 1) Press .
The last weight lifted will be displayed.




- 2) Complete the following:

If...	Then...
the last action was an "add"	press  . The bucketload is subtracted from the short total and long total.
the last action was a "subtract"	press  . The bucketload is added to the short total and long total.

3.4. HOW DO I FINISH THE LOAD?

When you have finished adding loads to the truck, you must clear the short total.





To clear the short total, complete the following:

- ▶ Press .
The short total will display briefly, followed by the **Total Cleared** message, then the *Total* screen. If the LOADRITE™ Weighing System has a printer connected, the short total will be printed before being cleared.

3.5. HOW DO I PUT THE INDICATOR INTO STANDBY MODE?

If you are not going to use the LOADRITE™ Weighing System for a while, you can put the Indicator into *Standby* mode by completing the following:

Option 1

- 1) Press .
 - 2) Press  or  to scroll up or down until **Standby** is selected, then press .
- The Indicator will enter *Standby* mode.

Option 2

The LOADRITE™ Indicator will automatically go into *Standby* mode if it is not used for one hour.

How do I exit *Standby* mode?

- ▶ Press any button to exit *Standby* mode.
The *Total* screen will display.

4. PRINTING

If the LOADRITE™ Weighing System has a printer connected, then various weight data is printed when is pressed.



5. APPENDIX - LEGAL INFORMATION

Disclaimer

Actronic Ltd operates a policy of on-going development. Please note that while every effort has been made to ensure that the data given in this document is accurate, due to continued product development, the information, figures, illustrations, tables, specifications, and schematics contained herein are subject to change without notice. Actronic Ltd does not warrant that this document is error-free. The screenshots and other presentations shown in this manual may differ from the actual screens and presentations generated by the actual product. All such differences are minor and the actual product will deliver the described functionality as presented in this document in all material respects. If you find any errors in the document, please report them to us in writing.

Actronic Ltd assumes no liability in connection with the use of any LOADRITE™ branded product.

Actronic Ltd is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Compliance

Domain	Applicable Standard
Electromagnetic Compatibility (EMC)	CE: Directive 2004/108/EC C-Tick: AS/NZS CISPR 22 Class B FCC: Part 15 Class B - Radio Frequency Devices IC: ICES-003 Digital Apparatus
Emissions Standards (residential)	IEC/EN 61000-6-3:2007 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
Immunity Standards (industrial)	IEC/AS/NZS/EN 61000-6-2:2005 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments



Products with the CE marking comply with the Electromagnetic Compatibility Directive (2004/108/EC) issued by the Commission of the European Community. Compliance with this directives implies conformity to the following European Standards:

EN 61000-6-2:2005 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments

EN 61000-6-3:2007 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

The Indicator is fully EMC (Electro-Magnetic Compatibility) compliant and is CE marked accordingly. A Declaration of Conformity, in accordance with the EMC Directive 89/336/EEC (and as amended) is available from Actronic Ltd on request.

Actronic Ltd cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with CE marking.

Hereby, Actronic Ltd, declares that this LOADRITE™ L1128 is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

The Indicator is compliant with RoHS Directive 2002/95/EC which sets limits for the use of certain restricted hazardous substances. This directive states that "from 1st July 2006, new electrical and electronic equipment put on the market does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE)".

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. This Notice is being provided in accordance with California's Proposition 65.

Disposing of the LOADRITE™ Indicator

This electronic product is subject to the EU Directive 2002/96/EC for Waste Electrical and Electronic Equipment (WEEE) which requires the separate collection, treatment, recycling and environmentally-sound final disposal of waste of electrical and electronic equipment. As such, this product must not be disposed of at a municipal waste collection point.

Please refer to local regulations for directions on how to dispose of this product in an environmentally friendly manner.

