ALRS2
USER INSTRUCTIONS
Software Version 2.1.1

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Description of system

The ALRS2 load cell is a multi-range system that gives you six units of measurement:

Te
KGS
LB
KN
(UST) US Tons
mV/V

With a telemetry working range of a minimum of 700 meters over 360°, this will give you peace of mind knowing that you will never lose signal.

The system has a constant peak mode that is displayed on the handset, the displayed peak can also be zeroed, and a power saving mode which is a battery saving option.

With the safety feature of an audible and visual overload alarm gives you complete control over your lifts.

The load cell is turned on via a switch on the load link and the monitoring system is switched on via the power button on the ALRS2 handset. This is to save battery during long term out of use. The load cell can be left switched on and can then be switched on/off from the ALRS2 handset.

Note: The load cell referred to in this instruction manual refers to any load monitoring device that the ALRS2 electronics are calibrated to. This includes, but is not limited to, load link, load shackle and compression load cell.

Shipping Note: If your equipment is being sent via air freight, the equipment will be sent without batteries contained in the load cell or handset.

User Instructions

Switching the system on

Where the load cell has an On/Off switch

On the load link there is a switch [image] press to 1 position to switch the link on and press 0 to switch the link off.

Where the load cell has no On/Off switch

While the handset is switched off the transmit board in the load cell will go to sleep and not transmit. When you switch the handset on it will also wake up the transmit board to start transmitting.

To switch the ALRS2 electronics on press the power button [image] this will switch on both the transmit board inside the load cell and the handset.

Switching the ALRS2 handset on

To conserve battery life, we have introduced a switch on the side of the ALRS2 handset that will cut all power to the handset so the handset will not use any battery while the on/off switch is in the off position.

To allow power to the ALRS2 system move the on/off switch to the ON position. Once this has been carried out you will need to press the power button [image] on the front of the ALRS2 handset.

To switch the ALRS2 handset on press the power button [image]

Tare and Zero

To zero the load displayed on the handset, enter the Tare mode by pressing the tare button
The display will show the following message

You will have the following options:
Set – the tare. This will tare the gross weight from your reading.
No. You will be returned to the previous menu
Zero. This will zero any load under 4% of your WLL, 'Working Load Limit'.

When you have selected your option press ok

The ALRS2 system will not allow you to zero more than 4% of the WLL of your load cell. This is due to safety reasons to ensure that large loads are not accidentally zeroed from the display.

If you try to zero over 4% of the WLL the ALRS2 system will give you the following message

To remove the tare and zero enter the tare mode and select reset.

Units of measurement

The ALRS2 has the function to display the load in four different units of measurement, these being, kg, lb, ton & kn.

To change the unit of measurement, press the menu button, then press the down arrow until Unit Config is highlighted then press the OK button. The available units of measurement will be displayed. Press the up and down arrows on the handset until the unit of measurement you require is highlighted.

The handset will then display the load in the selected unit of measurement.

When the handset is next switched on, the units of measurement will be as per your previous selection.

Power saving

The ALRS2 handset has the function to switch off after a desired period of time.

To enter the power saving menu, press the menu [Menu] button, then press the down arrow until the Power Saving menu is highlighted and press the OK [OK] button.

You will then have the option to select, 10 minutes, 5 minutes, 2 minutes or OFF. If you select either 10, 5 or 2 minutes the handset will switch off after the selected period. If you select OFF the handset will stay switched on until you switch it off.

When the load cell is not in range or switched off the handset will ask if you want to stay connected and then count down to zero and switch off.

LCD Contrast

If you want to change the brightness of the display, press the menu [Menu] button, then press of down arrow until LCD Contrast is highlighted and press the OK [OK] button. Then press the tare [tare] button to decrease the contrast and the peak [Peak] button to increase the contrast. Once you have selected the contrast press the OK [OK] button and the display will return to normal weighing mode.
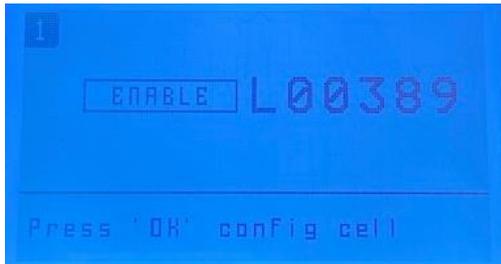
Peak

The ALRS2 handset constantly displays the peak on the display. If you wish to zero the peak displayed press the peak button. You will then have the option to enter either no or yes. Press the up and down arrow until your selection is highlighted then press the OK button.

Cell Configuration

The new version 2.1.1 ALRS2 handsets will be able to configure to read any load cell.

Press the MENU button to enter the menu and select Cell Config.

Cell configuration, cont.……..

The display will show what load cell the handset is currently connected it.   To enable a different load cell press the enter button and the cursor will be above and below the enable function. Press either the up or down button to disable the current load cell. Then move cursor through the channel number by pressing the right-hand button.   Once you have selected the new channel number you must press enter on the final digit for the channel to be stored.   This will move the cursor back to the Enable/Disable function, enable the handset and it will pair with the newly selected load cell.

Note: The handset will not pair with a transmit board that has not been updated since 21/05/2020. Please return complete load link to JCM and we will update the firmware free of charge.

Channel Reset

If your handset ever displays the message 'Connecting', firstly change the batteries in both the handset. If the handset still displays connecting you will have to perform a Channel Reset.

Enter the menu and select Channel Reset on page two of the menu. Select the Yes option by moving the cursor over Yes and press enter.

The handset will then re-pair with your load cell.

If you have multiple load cells in the vicinity and the handset has paired with the incorrect load cell, change the channel number through the Cell Config menu.
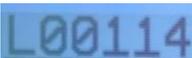
Overload

The overload is set during calibration, but it is possible to change the overload figure on the handset. Please note that if you change the overload that the audible and visual alarm will sound when this figure is reached. We recommend not using this feature unless necessary.

Device Info.

This part of the menu will detail what version your handset is currently running on.

Icon Identification

	Handset battery indication Displays the current battery status on the handset
	Load cell battery indication Displays the current battery status on the load cell
	Signal Strength Shows the signal strength of the ALRS2 system.
	Logging Icon Will display when the unit is transmitting to JCM Load Logger
L00114	ALRS2 channel number Each ALRS2 system transmit the data via a dedicated channel number. The channel will be required for logging.
Te	Unit of measurement indication. This can be changed using the Unit Config option in the ALRS2 handset menu.
PEAK	Peak Indicating the PEAK value. As well as displaying the actual load the ALRS2 unit will also display the PEAK load.

Trouble shooting

No information on display	If you switch on the handset and the display is not visible change the contrast on the display through the menu button. Press menu, then enter the LCD contrast menu and adjust this with the left and right buttons until the display is visible then press OK to accept.
Display too dark	If the display is too dark and the information cannot be read, adjust the contrast. Press menu, then enter LCD contrast menu and adjust this with the left and right buttons until the display is visible then press OK to accept.
Unit displays Connecting only	Follow the instructions on performing a Channel Reset on page 6.
Signal Strength not displaying	When the batteries in the handset are running low, to conserve battery the ALRS2 system will disable the signal strength icon. Replace the batteries and the signal strength shall display.
Handset makes 2 beep audible noises	This indicates that your handset is resetting its channel number to ensure continuous communication. The handset will re-set its channel number every time the batteries are changed and if it experiences interference.
There is no power to the handset	Ensure that that on/off switch is in the ON position.