



CS300

WIRED LOAD INDICATOR

Instruction Manual - Version I



! WARNING !

THE PURPOSE OF THIS MANUAL IS TO PROVIDE THE USER WITH THE OPERATING PROCEDURES ESSENTIAL FOR THE PROMOTION OF PROPER OPERATION FOR ITS INTENDED USE. THE IMPORTANCE OF PROPER USAGE CANNOT BE OVERSTRESSED. ALL INFORMATION IN THIS MANUAL SHOULD BE READ AND UNDERSTOOD BEFORE ANY ATTEMPT IS MADE TO OPERATE THE UNIT.

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INTRODUCTION

The Safe-Aid CS300 unit is designed with ease of operation in mind. The system goes directly into its normal operating/monitoring screen requiring no input from the operator unless a tare load is required. All inputs to the system are done by the operator via the front panel push buttons.







BATTERY VOLTAGE



CS300 Display – 3 x Size ‘AA’ 1.5V Alkaline Batteries.

 Low Voltage Shown by the battery symbol with DIS.

KEYPAD BUTTONS

There are six buttons on the front of the CS300 display and each can be used as per the table below.

	When the Max button is pressed the display will show the last maximum load (peak load) reading. To reset the max load, hold the Max and Zero Buttons simultaneously until zeroed is displayed. While in max load viewing Max Load will be displayed at the top right-hand corner of the screen and the load displayed will flash. To turn off max load press the Max button.
	Use the zero button to set the actual zero value on the load. This shifts the complete calibration values to the new zero point. Press and hold the Zero button for 4 seconds to set the new zero point.
	Use the tare button to set the tare load (net load). This can be used when the lifting apparatus etc. must not be included in the displayed load. While the load has been tared, Tare load will be displayed in the top right-hand corner of the screen. To return to actual load (gross load) Press the Tare button again.
	When the Min button is pressed the display will show the last minimum load (trough load) reading. To reset the min load, hold the Min and Zero Buttons simultaneously until zeroed is displayed. While in min load viewing Min Load will be displayed at the top right-hand corner of the screen and the load displayed will flash. To turn off Min load press the Min button.

	<p>This cross is used to cancel or exit when in settings menu.</p>
	<p>The confirm / power button is used to confirm menu options or settings in settings menu. To Power on or off hold the button for 2 seconds.</p>

SETTINGS MENU

To enter the menu, hold the Zero and Tare button simultaneously for 3 seconds. The screen will then go to the menu where the required selections can be made.

In the settings menu, the following functions can be changed or selected by highlighting the required setting and pressing the confirm button

- Screen Brightness
- Units of Measure
- Keypad Buzzer
- Auto Power Off Time
- Max Load
- Set Rate – Only for Wireless Units
- Master Settings

Screen Brightness

Set the backlight brightness from 0 - 100%

Use the up and down arrows to increase or decrease the number. Once correct accept the value using the confirm button.

Units of Measure

Set the metric units of measure

- Tons
- Kilograms

Keypad Buzzer On/Off

Switch between Keypad Button On & Keypad Button Off by pressing confirm on the keypad. The Buzzer will always sound for overload.

Auto Power Off Time

Set the auto power off time from 5 - 99 minutes.

Use the up and down arrows to increase or decrease the number and the left and right arrows to change the digit to be changed. Once correct accept the value using the confirm button.

Max Load

Set the maximum load allowed, the buzzer will sound if the max load is exceeded.

Use the up and down arrows to increase or decrease the number and the left and right arrows to change the digit to be changed. Once correct accept the value using the confirm button.

Master Settings

The master settings are password protected by a 4-digit password. Once the password has been entered the following settings can be setup here.

- Wireless Menu
- Load Menu

LOAD CALIBRATION / LOAD MENU

To calibrate the loadcell enter the Load Menu through the Master Settings using the 4-digit password.

The following settings can be found in the Load Menu:

- Calibration Points
- Resolution
- Decimal Place
- Load Calibrate

Calibration Points

This is the number of load points between 1 and 5 that are to be calibrated excluding the zero point. Use the up and down arrows to increase or decrease the number. Once correct accept the value using the confirm button.

Resolution

This is the resolution of the last decimal place and can be set to 1, 2 or 5. E.g. 0.1 or 0.02 or 0.005

Decimal Place

This is the number of decimal places after the decimal. This can be set to 1, 2 or 3.

Load Calibrate

Once in Load Calibrate the raw counts and current load are displayed at the top of the screen. The raw counts are the digital values calculated by the analogue to digital converter while the load shown is the load calculated from the calibrated values entered.

The following needs to be calibrated once the calibration points, resolution and decimal place have been set.

1. Zero Counts – this is done when there is no load on the load cell.
2. Span 1 Weight – Press confirm and enter the target test weight here for test 1
3. Span 1 Counts – Once the weight is stable press confirm the raw counts will be displayed. Press confirm to accept.
4. Span 2 Weight – same as Span 1
5. Span 2 Counts – same as Span 1
6. Span 3 Weight – same as Span 1
7. Span 3 Counts – same as Span 1
8. Span 4 Weight – same as Span 1
9. Span 4 Counts – same as Span 1
10. Span 5 Weight – same as Span 1
11. Span 5 Counts – same as Span 1

It is important to note the following:

- Only the selected number of calibration points will be shown.
- The calibration points must be calibrated in descending order.
- If the number of calibrations are changed after calibration the number of points selected will be the same as the last point of calibration i.e. if changing from 5 to 3 the last point saved will be Span 3.