

Installation & Operational Manual



AC4-OS

Lift Truck Keypad Operator Access Control with Programmable OSHA Safety Check

AC4-OS M



General Installation Guide

This **AC4-OS V1.25** Series installation & calibration guide describes how to install, set up, test and use your vehicle on-board keypad operator access control with automated OSHA safety check. Following the instructions in the **ADMINISTRATION MENU** guide will enable you to get the system set up and operating quickly. In the event that you require additional assistance, please contact customer support via e-mail at support@skidweigh.com , visit www.skidweigh.com or contact us at the address or contact number below:

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Safety

Always disconnect the vehicle battery while installing SkidWeigh system or any other electronic product.

Use care when routing the components cables. Route the cables where they will be protected. Use commonly accepted install practices for after market industrial vehicle electronic devices.

The installation of the AC5-OS systems should only be performed by an acknowledged lift truck dealer technician or end user electro and hydraulic technical installer.

Here are two acceptable methods of making a wire connections:

- * Soldering your connections (recommended)
- * Crimp connectors (with the use of the proper crimping tool)

Regardless of the method you choose, ensure that the connection is mechanically sound and properly insulated. Use high quality electrical tape and shrink tubing where necessary. This product is connected directly to the vehicle's ignition switch, 12 to 55 VDC. There is no on-off switch on the unit.

Electro-Magnetic Compatibility

CE conformity to EC directive 89/336 (EMC) by application of harmonized standards: Interference stability EN 61000-6-2 and EN 61326-1 interference emit EN 61000-6-3, EN 61326-1 for the pressure transducer.

AC4-OS SkidWeigh Plus Series

Our policy is one of continuous improvement and the information in this document is subject to change without notice. The software version is displayed on the LCD display once the power is turned on to the system.

Overview of components

The standard **AC4-OS** system consist of two main components:

- * Digital indicator with wiring harness, mounting bracket
- * Installation & calibration manual and operator usage instruction
- * One Master RFID card and one operator card is included

Default Operator ID# Access Code

Note: All AC4-OS systems supplied to the end user have **default operator ID = 111**. This is necessary for installation technician to input default ID# to verify electrical connection to the vehicle (seat switch connection of two wires BLUE and GREEN wires connected in series with one of the seat switch wire) and be able to enable vehicle operation. With LCD Display showing of DATE / TIME the “Administration Menu” will be accessible to the technician.

Selecting the mounting location for digital indicator

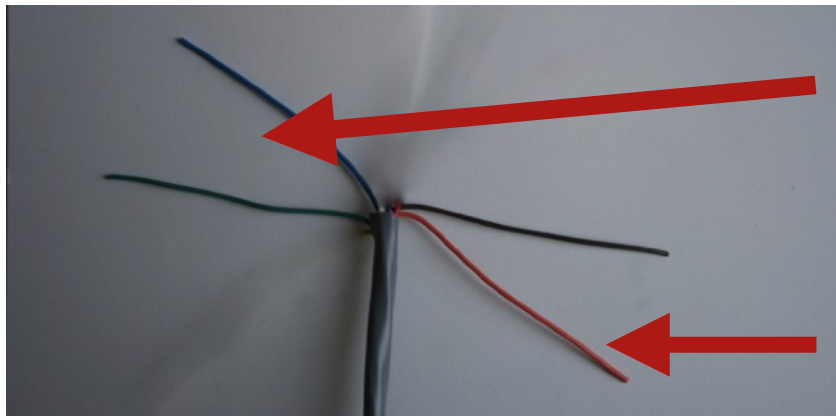
Use the mounting bracket with the anti vibration mount and fasten digital indicator on the vehicle dashboard, side railing on the right hand side or preferably on the overhead guard. There are many examples of mounting locations that will depend on the vehicle model. However, additional mounting items such as a flat brackets may be needed to help secure the unit to upper right corner of the guard or side railing.

Choose the correct location and make sure that:

- Indicator is visible and within reach of the operator
- Location so that operator has a clear unobstructed view of the working environment

Electrical connections

All AC4-OS systems operate from 12 to 55 VDC.



Vehicle Enable Operation Interface

Use two wires **BLUE** and **GREEN** and connect them in series with vehicle seat switch wire

Normally Open Contacts

Power Supply

(+) **ORANGE Wire**, Connect to ignition switch
(-) **BROWN Wire**. Connect to battery negative

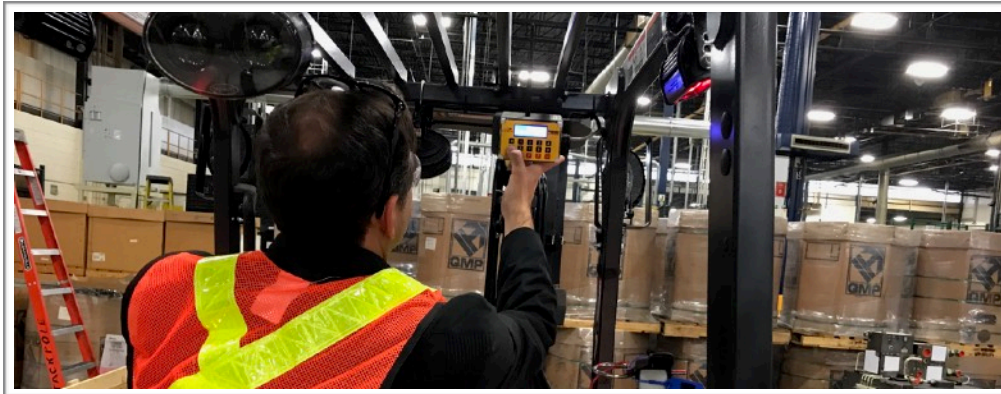
Orange Wire (+) Ignition switch

Brown Wire (-) Battery negative

Internal relay connections to be used to enable vehicle usage (Dry contacts)

BLUE Wire, common

GREEN Wire, N. O. contact



Keypad



Toggle Arrows Keys
 (LEFT or RIGHT) in set up
 menu

Select function in F 0 and
 F 9 menu

**Optional Functions for impacts,
 weigh scale**

Print Key or /and
 SEND key to wireless base station

FUNCTION MODE KEY

F9

F0

“Enter key” ←



Note: To enable vehicle operation or to get to the “Administration Menu” you must log in into the system with valid operator ID#.

The LCD Display must show Date / Time to access “Administration Menu”.

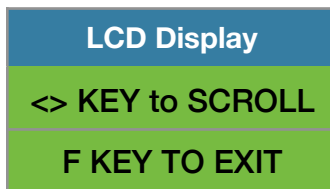
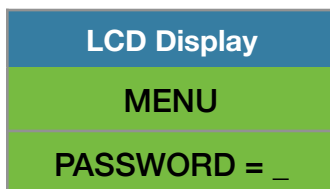
Default valid operator ID# is 111

(Should the operator ID# 111 be invalid than you must input **742F** and find out the valid ID#1)

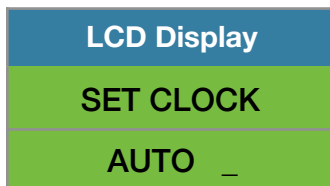
Press F key to exit!

Administration Menu Instructions

To enter into the **Administration Menu**, input valid operator ID#. LCD Display should show Date / Time. Press **F key** and than number **9 key** and input password **521**. Use left and right arrow keys to scroll through the menu and follow the LCD instructions. Use **“Enter key”** ↵ to confirm selection.



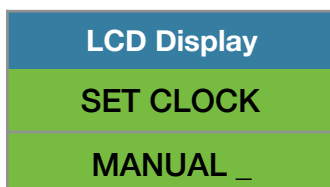
Date / Time Set Up



Use left ◀ and right ▶ arrow key (*bottom left side of the keypad*) to change from AUTO to MANUAL date/time set up.

Note: AUTO set up refers to system utilizing a wireless RF platform with automatic date /time update from IVDT Base Station communication and programming hub.

For the applications without Base Station, select MANUAL _ set clock and follow the LCD instructions.



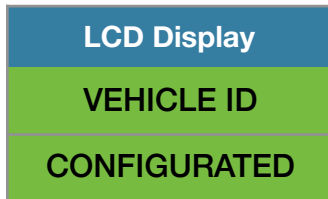
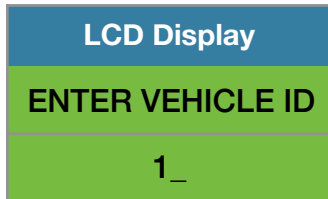
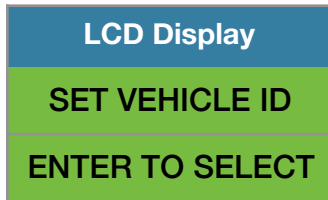
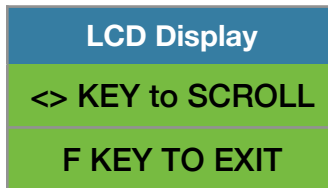


Press **“Enter key”** ↵ to confirm the setting. The cursor will automatically move to the next item to be changed (Month, Day, Year, Hours, Minutes, Seconds). On the last correction, seconds item press **“Enter key”** ↵ to confirm new date / time set up.

Vehicle ID# Set Up

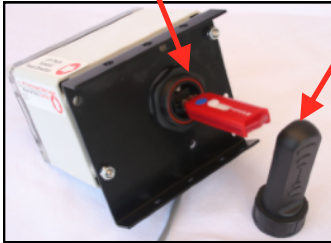
- Maximum input number for vehicle ID is 4 digits.

Note: For system used with RFID card reader maximum input number for vehicle ID is 5 digits.



USB port

USB Port Protective Cover

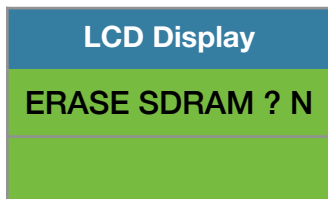
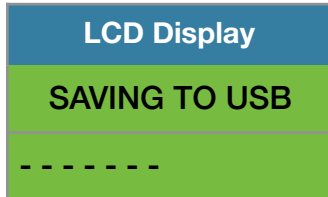
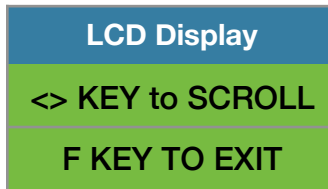


Save data to USB

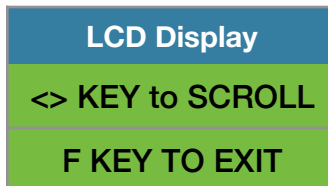
The AC4-OS system will allow you to download all recorded data onto a USB drive.

Follow instructions shown on the LCD display

This function is located in **Supervisor Menu** to protect the integrity of the information.



When the system has finished uploading the data to the USB memory stick the LCD display will prompt you to erase the SDRAM , all files contained on the SKidWeigh Plus ED3-IM . Once you have made your selection **Y** or **N** the system will automatically bring you back to the main screen in the supervisor menu.

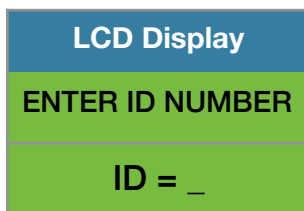




Operator Usage Guide

Turn on ignition switch **(Vehicle operation will be disabled until valid operator ID# is entered)**

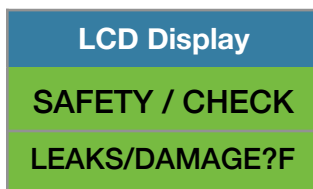
Input valid operator ID# and press “Enter key” ↵



LCD display will show date and time

or

LCD message will prompt the operator to complete OSHA safety check procedure before vehicle operation is enabled.



Default values for all OSHA “safety check’s messages” shown on the LCD Display are **F** meaning **Fail**.

Press “Enter key” ↵ to confirm if the **F** (Fail) if true.

To change **F** (Fail) to **P** (Pass) press left or right arrow key. The LCD will change to **P** and press “Enter key” ↵ to confirm selection.

System will automatically advance to next OSHA “safety check message”.

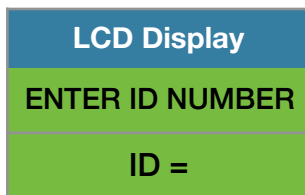
Follow above procedure for all next OSHA “safety check messages” by inputting the **F** or **P**.

After the last “safety check message” input (**F** or **P**) is done the LCD display will go back and show date / time and **vehicle operation will be enabled**.

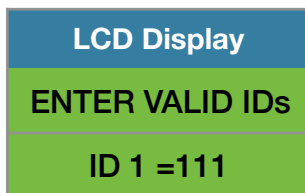


Start point to program valid operator ID#'s

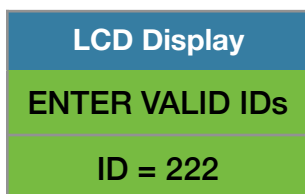
- With power turned on to the system the LCD display will indicate to “**ENTER ID NUMBER**”



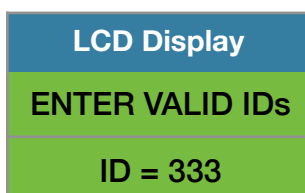
- Input password **742F** and LCD display will prompt you to input first valid operator ID#. (Any number in range from 1 to 999) and press “**Enter key**” ↵. (In our example ID#s are 111, 222 and 333.)



- LCD display will advance and prompt you to input second valid operator ID# and press “**Enter key**” ↵.



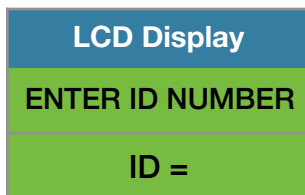
- LCD display will advance and prompt you to input third valid operator ID# and so on.



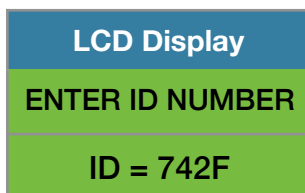
Note: On the last valid operator ID number that you have inputed into the system, press “Enter key” ↵ and than press **F** key.



- At any time if you want to look at the operators ID numbers already in the system or change them you must get to the LCD display message as shown below.



Input password **742F**



The system will show first valid operator ID#. To keep this first valid ID# press “Enter key” ↵ To change the current ID#, input new ID number and press “Enter key” ↵.

Note: On the last valid operator ID number that you have inputed into the system, press “Enter key” ↵ and than press **F** key.

* System will accept up to 150 valid operator’s ID numbers. (Maximum 3 digits, range from 1 to 999)