Compuload
On Board Weighing Systems

COMPULOAD CL6000 OPERATING INSTRUCTIONS

Dynamic Weighing System for Loaders – Batching Software

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BASIC WEIGHING AND TOTALISING

The Compuload CL6000 is designed to weigh the load in the bucket / forks of a front end loader. This system has been set up to weigh in a Dynamic Weighing Mode (as the load is raised). The Compuload CL6000 has been calibrated using LIFT SPEED COMPENSATION. This means that the CL6000 will weigh the load accurately at any engine RPM (within the calibration settings). The CL6000 will weigh the load as the bucket is raised **_PAST_** the LIFT SPEED COMPENSATION SWITCH.

Basic Weighing –
1. Before weighing the CL6000 should be checked to ensure that the EMPTY BUCKET is reading ZERO.
2. With the bucket empty and fully crowded, raise the bucket up **through** the LIFT SPEED COMPENSATION SWITCH at a smooth steady lifting speed. Keep lifting until the word HELD appears in the top corner of the display. If the reading is other than 0.00 (zero), press ZERO button for two seconds to zero display.
3. Apply the load and raise the loaded bucket up **through** the LIFT SPEED COMPENSATION SWITCH at a smooth steady lifting speed. Keep lifting until the word HELD appears in the top corner of the display.   Then the weight will be displayed for a pre-determined period (usually 10 seconds)
4. Press the LOAD key (if in HOLDS and ADDS, this step is completed automatically)
5. Press the Product ID Number that corresponds with the product you have weighed. Press LOAD
6. If the correct Product is displayed, press the LOAD key again to confirm (or the weight and Product will be added automatically if nothing is done after approx. 5 sec)
7. NOTE: - If a bucket or Product ID has been added into the TOTAL and you wish to subtract and reweigh that bucket, press the ESC button within the 10 seconds to UNDO.

NOTE: - The CL6000 can also be set to Automatically accumulate the weights as the load is raised. For AUTOMATIC TOTALISING press the TRIG button (F4), select HOLDS & ADDS using the UP / DOWN direction arrows. Press LOAD button to save and return to the main page. AUTOMATIC TOTALISING has now been set. After weighing, only Press the Product ID Number and Load to confirm. Repeat process to return to MANUAL TOTALISING, by choosing HOLDS ONLY in the menu.

8. Once the required TOTAL has been reached, a short press of the CLR button will reset the SUB TOTAL only, and the TOTAL remains. A long press of the CLR button will reset both the SUB TOTAL and the TOTAL. This is used if loading trucks with more than one bin.

TIPS FOR ACCURATE WEIGHING: -

Whilst the Compuload CL6000 is designed to weigh loads as the machine is operated and the load is lifted, some conditions may cause variations to the weight readings. Results can generally be improved by using care whilst weighing.

I)   Lift the load at **YOUR NORMAL** speed through the lift sensor.   Start the Lift from near ground level. Maintain a smooth steady lift until a weight reading is obtained and HELD is displayed on the screen.

II)   Open lifting valve fully to raise the load (ie: - pull the lever right back)

III)   Whilst weighing have loader on a level surface

III)   Avoid excessive bounce on rough surfaces whilst weighing.

IV)   Regularly check the zero.

V)   Not all loaders can weigh loads whilst the loader is in gear and moving along the ground. Different conditions may cause irregular readings. Establish the weight in the bucket by doing 5-10 lifts with a bucket of material whilst stationary. Then attempt to weigh whilst in gear and moving. Then determine if the weights are within your accuracy requirements.

VI)   To reduce the level of TYRE BOUNCE, activate the lift lever before introducing engine RPM.

VII)   Best accuracy is obtained when the loader is at Normal Operating Temperature. Try to warm the loader up prior to loading.

VIII)   Lack of grease in the pins / articulation joints associated with the lifting arms will result in inaccuracies. Ensure grease is applied on a regular basis to these pins in accordance with manufacturers specifications.

OPTIONS AVAILABLE

The following options are available to the operator if required and as required.

HOT KEYS -

Across the top of the keypad is the F1 – F5 Hot Keys. These keys allow quick and easy access to the main Operator Related Functions.

F1 –CUST – This function allows easy access to Field 1 data storage (Customer). Press the F1 key once. Display will show, SET CUSTOMER.

- If there are **Customers already entered**, the display will show the last saved Customer, and a list of previously entered Customer. Use the UP/DOWN keys to select from this list and press the LOAD key once to save. The display will return to main page.
- To **enter a new Customer name to the list**, simply press the CLEAR key once to create a cursor and enter the new Name of the Customer, and press LOAD key once to save. The display will return to main page.

F2 – PROD - This function allows easy access to Field 2 data storage (Product ID). Press the F2 key once. Display will show,   SET PRODUCT.

                                ID: _

- If there are **Products already entered**, press the number that coincides with the Product ID. For example – Press 1, then LOAD, the display will show the Product saved as Product 1 and press the LOAD key once to save. The display will return to main page.
- To **enter a new Product name to the list**, enter a vacant Product ID number, then press LOAD. Then enter the Name of the Product, and press LOAD key once to save. The display will return to main page.

F3 – TRUCK – This function allows easy access to Field 3 data storage (Truck). Press the F3 key once. Display will show, SET Truck.

- If there are **Trucks already entered**, the display will show the last saved Truck, and a list of previously entered Trucks. Use the UP/DOWN keys to select from this list and press the LOAD key once to save. The display will return to main page.
- To **enter a new Truck name to the list**, simply press the CLEAR key once to create a cursor and enter the new Name of the Truck, and press LOAD key once to save. The display will return to main page.

F4 – TRIG – This function allows the operator to change the action of the LIFT SPEED COMPENSATION SWITCH. Press the F4 key once, the display will show SET EXTERNAL TRIGGER. Use the UP / DOWN direction keys to alter – then press the FUNC key to save.

DOES NOTHING – The LIFT SPEED COMPENSATION SWITCH is turned OFF. There will be NO action from the display when the arms are raised. The display will show IDLE in the top right-hand corner when this function is set.

HOLDS ONLY – The loaded bucket will be weighed after it has been raised passed the LIFT SPEED COMPENSATION SWITCH but will not accumulate into the TOTALS until the LOAD Button or the EXTERNAL LOAD BUTTON (if fitted) is pressed.

HOLDS & ADDS – The loaded bucket will be weighed will automatically accumulate into the TOTALS after the arms have been raised past the LIFT SPEED COMPENSATION SWITCH

F5 – PRINT – ONLY AVAILABLE IF THE PRINTING FUNCTION IS TURNED ON.

This function allows the Printer (if fitted) to be turned ON / OFF / COPY. Press the F5 key once, the display will show SET PRINTER MODE. Use the UP/ DOWN direction keys to alter and then the FUNC key to save.

Optional External Button- (If fitted)

Some installations will have an External Button fitted close to the operator controls. This button can have different functions. If fitted, it will normally be set to option 1. Below.
1. External LOAD Button – (Trigger set to Holds Only) When a bucket of material has been weighed, the weight can be added into the Sub Total / Total by pressing the External Load Button.
2. External ESC Key- (Trigger set to Holds Only or Holds and Adds) When a bucket of material has been weighed and added into the Sub Total / Total, the weight can be subtracted by using the ESC key. The external button can be set to be used as an External ESC Key.
3. External CLEAR key- When truck has been loaded, the CLEAR on is used to clear the Sub Total and Total. The External Button can be set to be used as an External CLEAR key. A short push will just clear the Sub Total. Push and hold the CLEAR Button for 2 seconds to clear both Sub Total and Total.

Contact your installer for settings of the Optional External Button.

FUNCTION LIST

Further FUNCTIONS are available by pressing the FUNC key once. CL6000 display will show –

CURRENT JOB - The display will show a list of Current Job settings. Use the UP/DOWN direction arrows to scroll through the settings, press the FUNC key to alter the highlighted setting.

> **TARE –** Not normally used on loaders. Ensure this is set to 0.00t for accurate weighing.
> **CUSTOMER –** This is the same as pressing the F1 HOT KEY, refer to HOT KEY instructions.
> **PRODUCT -** This is the same as pressing the F2 HOT KEY, refer to HOT KEY instructions.
> **TRUCK-** This is the same as pressing the F3 HOT KEY, refer to HOT KEY instructions.
> **TARGET WEIGHT** – Allows operator to set a target weight to cause an alarm to sound when target "Total" is reached. Set at **0.00t** to turn target weight "off". Use the UP / DOWN direction arrows to highlight TARGET WEIGHT, then press FUNC key once. Use the UP / DOWN arrows to set in the desired Target Weight, then press FUNC key once to set. Then press the ESC key one press at a time to exit the Function Table.
> **GRAND TOTAL** – Allows the Grand Total of Totals stored in the memory.

DATA LOGGER – ONLY AVAILABLE IF THE PRINTING FUNCTION IS TURNED ON.
The display will show a list of available Data Logger Options. Use the UP/DOWN direction arrows to scroll through the options, press the FUNC key to enter the highlighted option.

> **Print Last Records -** Display will show PRINT LAST RECORDS, 1 day. Enter in the desired number of days printout out you require and press the FUNC button.
> **Print All Records –** CL6000 will start printing ALL records available then return to the Main Page.
> **Print Selected Records –** Allows selected records to be printed from the 3 x data fields (Customer, Product or Truck)
> **Print Summary –** Prints a Summary report of all Customers entered, Product supplied to these Customers and quantities.
> **Display Totals –** Allows Totals from the 3 x data fields (Customer, Product or Truck) to be viewed on screen.
> **Reset Data Logger –** (Only visible once Code has been entered) Allows the resetting of the stored Totals.

WEIGHING CONFIG- Press the DOWN direction arrow once to highlight the WEIGHING CONFIG menu. Press the FUNC key once to access. Same options as the F4 TRIG HOT KEY. Press the FUNC button once to access the menu. Use the UP/ DOWN direction arrows to alter the setting, then press FUNC to save. Press the ESC key one press at a time to exit the Function Table.

PRINTER / RS232- CODE PROTECTED OPTION - Press the DOWN direction arrow once to highlight the PRINTER / RS232 menu. PRINTER MODE is highlighted, press the FUNC key once. To alter the Printer setting to ON/ OFF/ COPY use the UP/DOWN direction arrows. Press the FUNC key once to save. Then press the ESC key one press at a time to exit the Function Table.

DATE / TIME Config – CODE PROTECTED OPTION - Press the DOWN direction arrow once to highlight the Date / Time Config menu. Press the FUNC key once to access. This function allows the Date and Time settings to be altered. Highlight the required section and press FUNC to access. Use the Direction Arrows to change, then press FUNC to set and exit. Then press the ESC key one press at a time to exit the Function Table.

System Config – This function will show the operator the information on the system fitted to the machine. This function is mainly used when / if talking to the manufacturer to ascertain the software version / serial numbers etc. Not normally required in normal day to day operations. Press the ESC key one press at a time to exit the Function Table.

COMPULOAD CL6000 USB DOWNLOADER

The Compuload USB Downloader needs to be installed into the CL6000 display to perform.
Contact your Compuload Distributor for details.

If already installed and activated, the Compuload USB Downloader will download information stored in the CL6000 display onto a standard USB Memory Stick.

Simply insert a FORMATTED USB Memory stick into the USB Slot.
Press the FUNC key once and then using the UP/DOWN highlight the USB Drive menu, Press the FUNC key once.

Highlight the option required and Press FUNC key once.

Once the download has been completed the display will show
"Download Complete".
"Safe to remove USB Stick".

Insert the USB Memory Stick into your laptop or desktop and open the relevant file.

TIP: - Always FORMAT the USB Stick prior to inserting into the Compuload.

WARRANTY COMPULOAD CL6000

THE COMPULOAD CL6000 HAS NO USER SERVICEABLE COMPONENTS INSIDE DO NOT ATTEMPT TO DISMANTLE THE UNIT AS THIS WILL CAUSE YOUR WARRANTY TO BECOME NULL AND VOID.

ATLAS WEIGHING Pty. Ltd. warrants the COMPULOAD Series CL6000 load weighing gauge and any optional equipment to be free of defects in workmanship and material for a period of twelve (12) months from date of dispatch or installation, (whichever is applicable)

This Warranty only applies provided the COMPULOAD CL6000 and accessories are used in accordance with the recommendations of ATLAS WEIGHING Pty. Ltd. under normal use and reasonable care.

The warranty does not cover damage in any way whatsoever including transit damage. The warranty does not cover malfunction or failure resulting from misuse, neglect, or abuse.

The warranty immediately becomes void should any repairs, alterations or modifications are carried out or attempted to be carried out by other than ATLAS WEIGHING Pty. Ltd.

The warranty is not transferable and applies only to the original purchaser unless authorised by ATLAS WEIGHING Pty. Ltd.

The warranty does not include travel expenses should a factory engineer or representative be required to perform repairs on site.

At the option of ATLAS WEIGHING Pty. Ltd. any faulty units or components will be repaired or replaced free of charge whilst within the warranty period providing the unit or component is returned to our premises with freight pre-paid.

Our factory engineers will offer all possible assistance to rectify any difficulties experienced in the field. Most problems can be overcome by telephone. Please contact our office prior to forwarding any units or components for attention.

NOTE: Our carrier does not accept responsibility for loss or damage in transit. Should transit or freight loss or damage insurance be required it must be indicated on your order and the cost of such insurance will be charged accordingly.