

DIGILOAD DIGILOAD™ BASICS MANUAL



 **labrie**
Labrie **Enviro**quip Group



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OBC and System Display

The Basics

The DigiLoad™ system is made up of two basic computing components, one being the OBC (on-board computer) or Metiron, the second being the display.

OBC

All data is communicated to the OBC from the accelerometer and loadcells located on the lift arms.

The accelerometer and cells 1 and 2 are located on the driver side arm, while cells 5 and 6 are located on the passenger side arm.

The system takes 100 calculations of weight per second using a vibrating wire frequency signal input to the OBC.

The individual calibration of each load cell is handled through usage of an EEPROM. Each individual cell has its own EEPROM and will need to be changed in the OBC immediately after replacement.

All system communication using CalHelper and HyperTerminal is performed through the OBC.

Basic file types available from the OBC are the config. and journal files.



Display

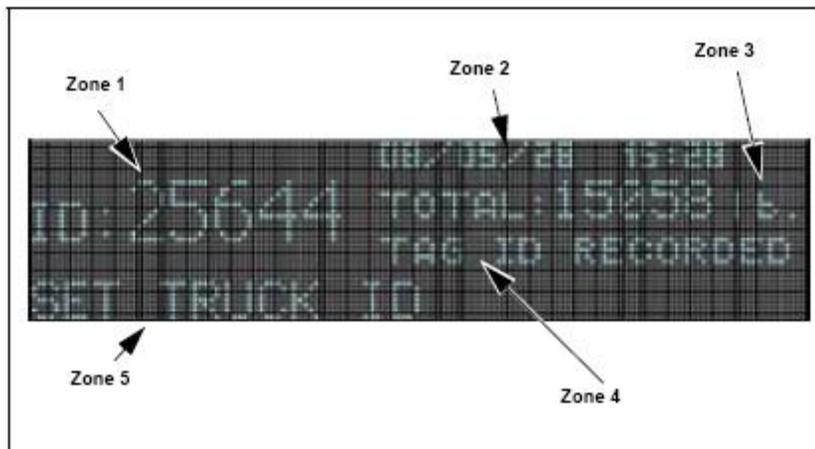
The display is essentially void of logic, being used only for the extraction and displaying of system information pertinent to the operator.

The system always reads and logs in kilogram (kg) but performs the conversion ($\text{kg} \times 2.2 = \text{lbs}$) to allow the display to show units of measure in lbs. This calculation is performed inside the display.

The display has its own operational firmware which is used to perform these basic computing functions. Firmware version being used should ONLY be 2.1.

Display Zones

The digital display is composed of 5 zones.



- Zone 1 = Container's weight and lift information
- Zone 2 = Date and time
- Zone 3 = Total weight
- Zone 4 = Tag information (optional)
- Zone 5 = Messages, menus and RFID number (optional)

Loadcells



The DigiLoad™ scale system uses a vibrating wire which is electronically charged and used to measure the deformation of the metal in which it is mounted.

The system works similar to a guitar string. When tension is removed the frequency lowers, when tension is increased the frequency increases. These measurements are taken by the Metiron and calculated into a weight.

Each cell carries its own calibration number or EEPROM which must be loaded into the Metiron any time a cell is replaced.

This ensures total system accuracy and allows to keep the same calibration.

Two loadcells are located on each arm in an X pattern to measure both positive and negative deformation.



CalHelper

CalHelper is the diagnostic software currently being used to perform troubleshooting (along with cable 95388). It is also used for saving and loading config files, saving journal files, modifying EEPROM files for cells, reading frequency for cells and editing system using HyperTerminal.

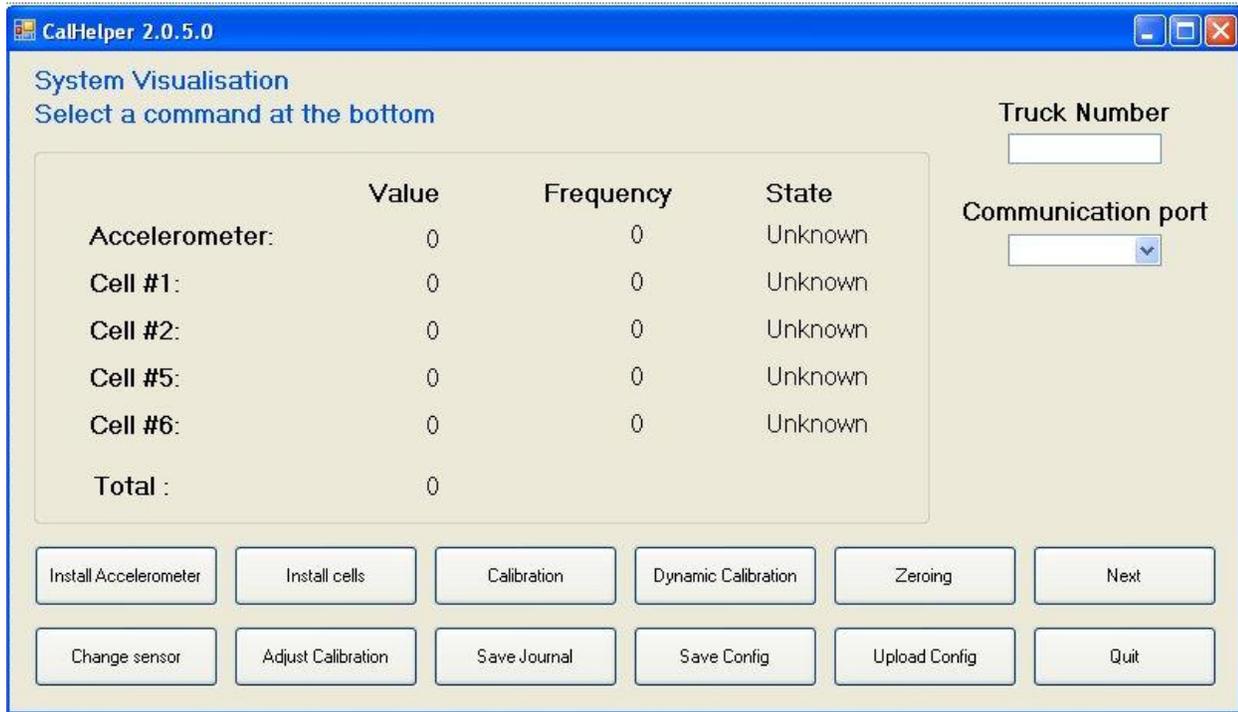
The following is the connection procedure:

1. Connect cable #95388 to OBC (on-board computer) using the communication port at the rear of the computer.
2. Connect cable #95388 to serial port on laptop and open the CalHelper program.
3. Enter the unit bumper number (i.e. 906 or 907) and select the appropriate communication port (most likely #1).

NOTE: Once you are in the system you will notice two primary rows of options. The top row is for INITIAL CALIBRATION AT LABRIE ONLY and should not be touched. For anything pertaining to repair or system upgrades post Labrie will be accomplished using the lower table.

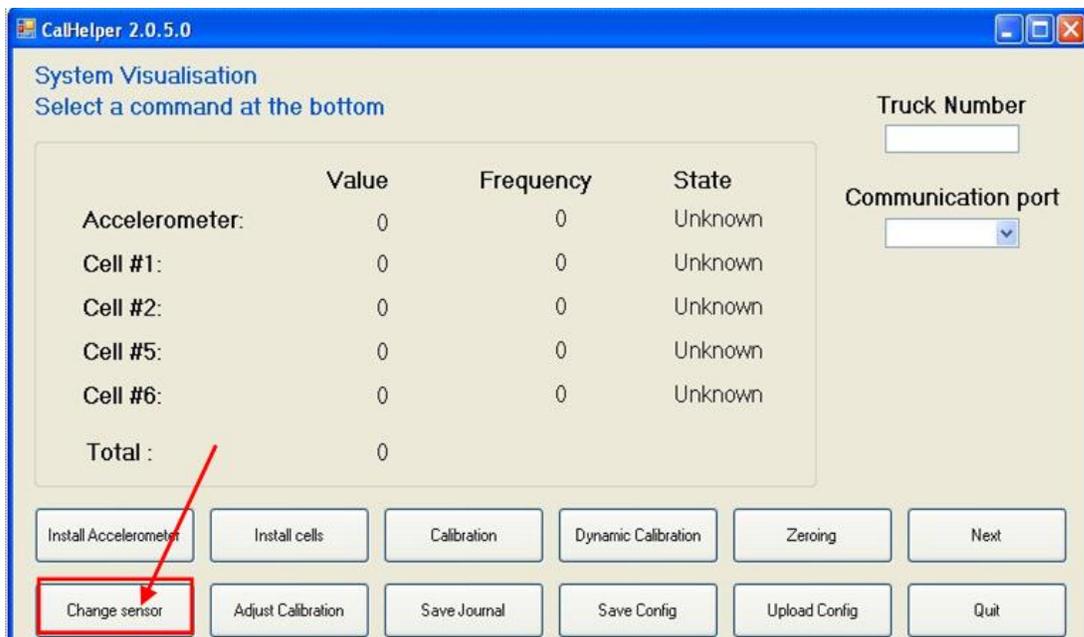
NOTE: Also visible at this time would be the frequency of the 4 main cells and accelerometer. Depending on the location of the arms at the time of connection the system may show “stable” or “unstable” at any time.

CalHelper Menus



Change Sensor

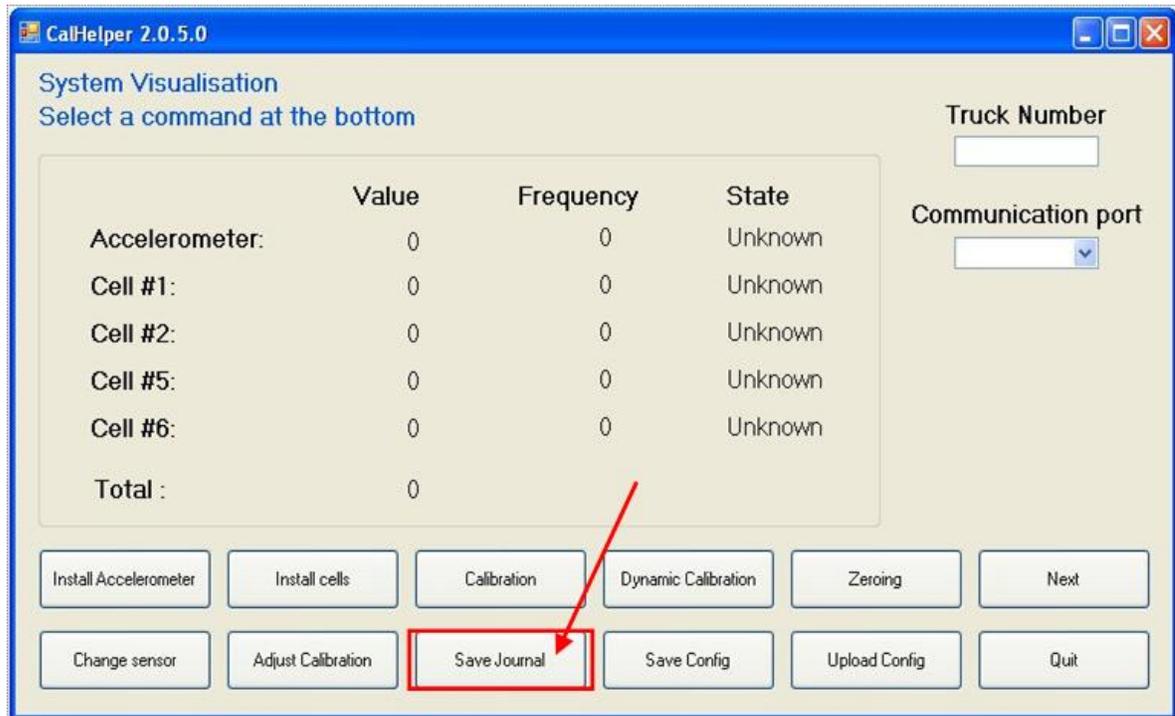
This menu item is used to update a specific system cell EEPROM, or to enter or update a new cell EEPROM if one or more cells need to be replaced.



Save Journal

Clicking SAVE JOURNAL will create a text file located in the following directory: **C/Program files/Labrie Environmental Group/Calhelper/Data**

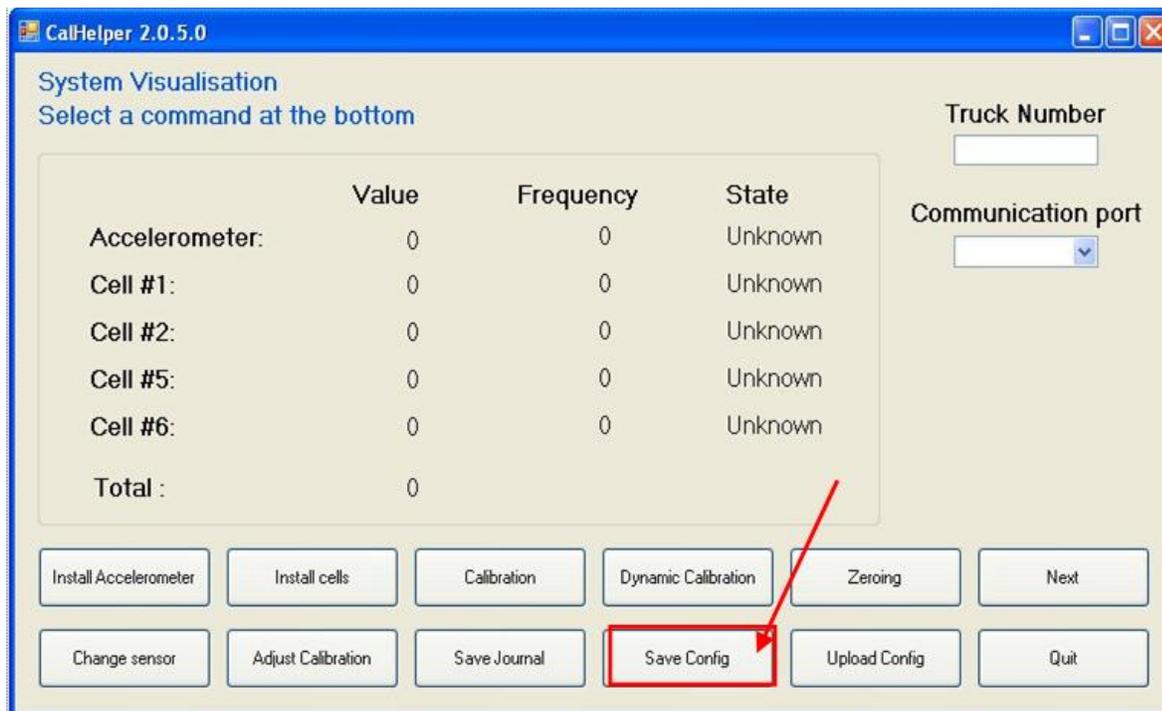
This data is useful to capture the last 4000 weights lifted, and to view error codes.



Save Config

Clicking SAVE CONFIG will create a text file located in the following directory: C:/Program Files/Labrie Environmental Group/Calhelper/Data

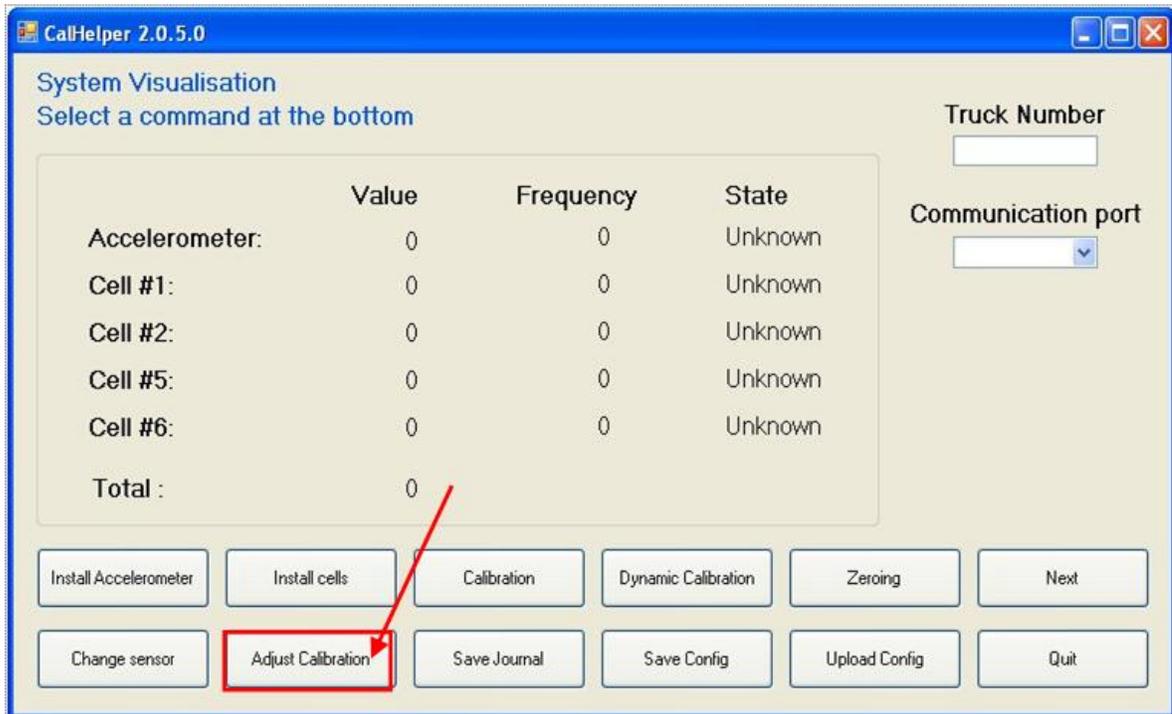
This data is useful to know the original calibration parameters and view error codes.



Adjust Calibration

This feature should ONLY be used if a noticeable tendency is present for the system being off consistently at the landfill every time.

NOTE: At least a week of data is necessary to know the adjustment value.

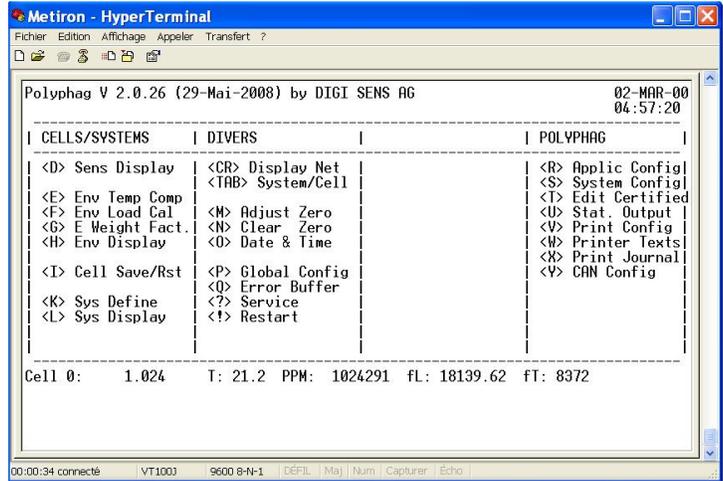


NOTE: This adjustment should only be done with approval from a Labrie Plus certified representative.

3

HyperTerminal

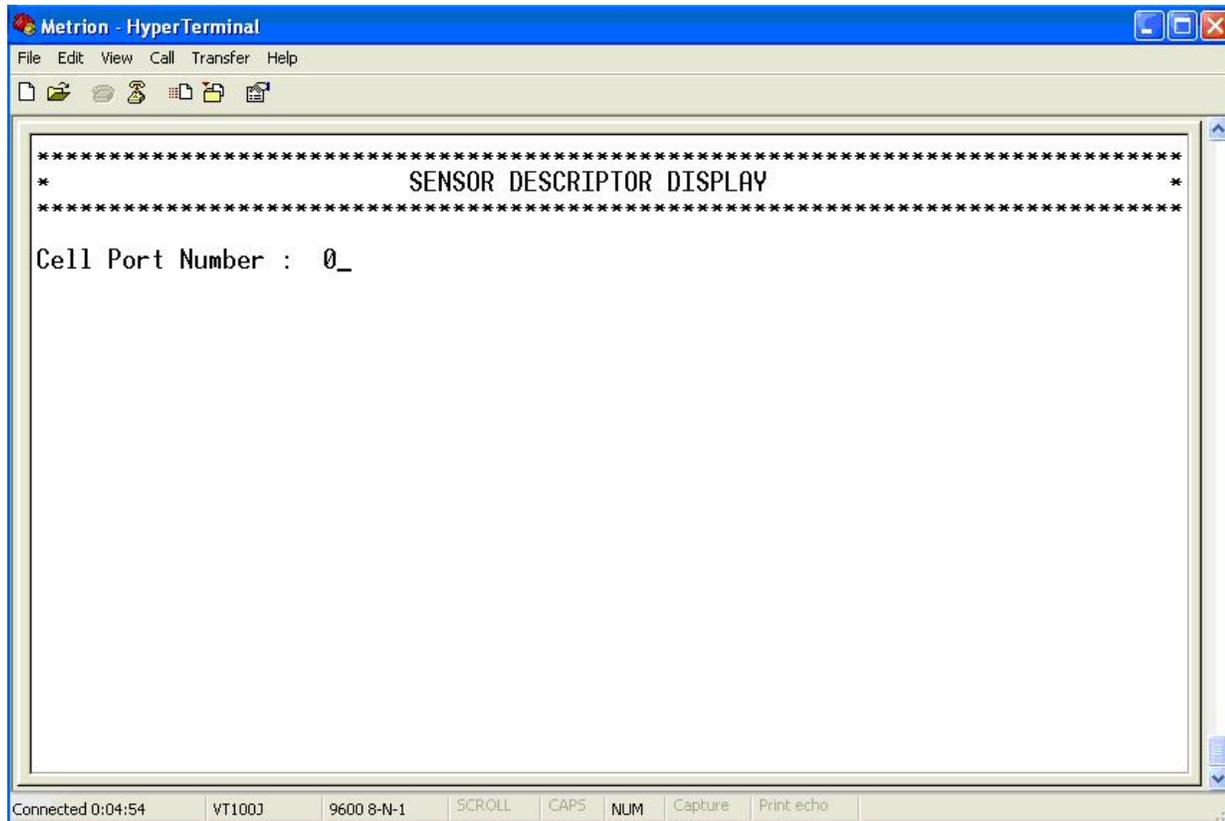
HyperTerminal is the basic program used by DigiSens to troubleshoot and configure the DigiLoad scale system. Specific functions are available in HyperTerminal that are not available in CalHelper.



Menu D

Selecting MENU D allows you to view all detailed information for each cell on an individual basis.

When you press the letter D the following screen will appear:



You can choose from any of the cells in the system:

- ◆ 0=Acceleration sensor
- ◆ 1=Load cell 1
- ◆ 2=Load cell 2
- ◆ 5=Load cell 5
- ◆ 6=Load cell 6

Below is an example of cell 0 displaying the requested information:

The screenshot shows a HyperTerminal window titled "Metrion - HyperTerminal" with a menu bar (File, Edit, View, Call, Transfer, Help) and a toolbar. The main display area contains the following text:

```

*****
*                               *
*          SENSOR DESCRIPTOR DISPLAY          *
*                               *
*****

Cell Port Number : 0                Sensor Serial # : 0000677987

S Temp Cal Done : YES              Cell Type : ANGLE/ACCEL
S Temp Comp Done : YES            Character : square (KS)
S Load Cal Done : YES            Date of Load Cal : 04-DEC-09 11:43:08

Load Calibration : degree 3        Temperature Cal : degree 2
Coefficient[0] : -0.00000219      Coefficient[0] : -206.8657
Coefficient[1] : 1.22996440       Coefficient[1] : 0.1341
Coefficient[2] : -0.31768272     Coefficient[2] : 0.0000
Coefficient[3] : 0.08771793

Load Zero : 0.00      Freq Zero : 11626.92      acc. gravity : 9.81
Load Full : 1.00     Freq Full : 17222.09      T at Load-Cal : 20.73

Low Temp C : -10.00   Load A : 11606.00      Load B : 17243.00
High Temp C : 40.00  Load A : 11574.00     Load B : 17214.00

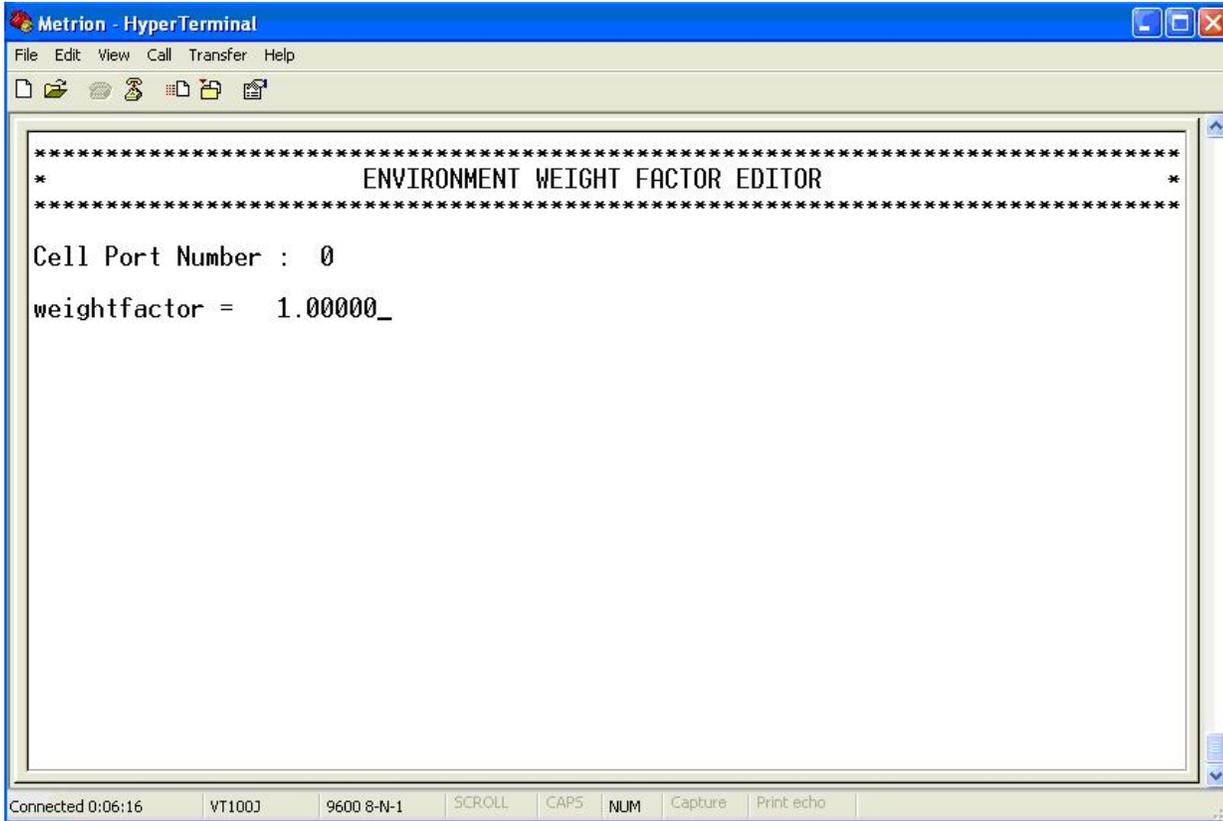
Press any key to continue...

```

At the bottom of the window, a status bar shows: Connected 0:05:05 | VT100J | 9600 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo

Menu G

This enables the user to view the specific weight factor information for each specific cell. This information is also displayed on the CONFIG FILE by saving the CONFIG FILE in **CalHelper**.



System Define

At times you may need to redefine the system in the event a file is corrupted, or the system is unable to see the correct parameters for each component connected.

NOTE: Press ENTER to continue bringing each line in. Without doing this it will only display one line at a time.

```

*****
*                               DEFINE SYSTEMS                               *
*****

Define System Number           [0..7] :           0

Select Cells included in System 0 : 01256
Unit used for System 0         (select with TAB) :           kg
Select Number of (Sub)Ranges or Intervals :           1
MAX in Range or Interval 1     :           4535.00
DIGITS in Range or Interval 1   (select with TAB) :           X kg
RESOLUTION in Range or Interval 1 (select with TAB) :           1 kg
Deadload of System             :           620.00

Define additional Systems ?     (select with TAB) :           NO
Save to EEPROM (inside METIRON) ? (select with TAB) :           YES_

```

Connected 0:01:53 | VT100J | 9600 8-N-1 | SCROLL | CAPS | NUM | Capture | Print echo

Looking at the middle of the screen note the system currently is stating cells 0, 1, 2, 5, 6 are all present.

This is correct and will let you know that the information you are about to program in is correct.

NOTE: Procedure to redefine system is in the TROUBLESHOOTING section.

! Restart

Often times during repair of the DigiLoad system, it is good practice to perform a restart of the Metrion. Think of this as a rebooting of the computer without having to turn the vehicle ignition on and off.

This command is easily obtained through the HyperTerminal window by selecting SHIFT+!

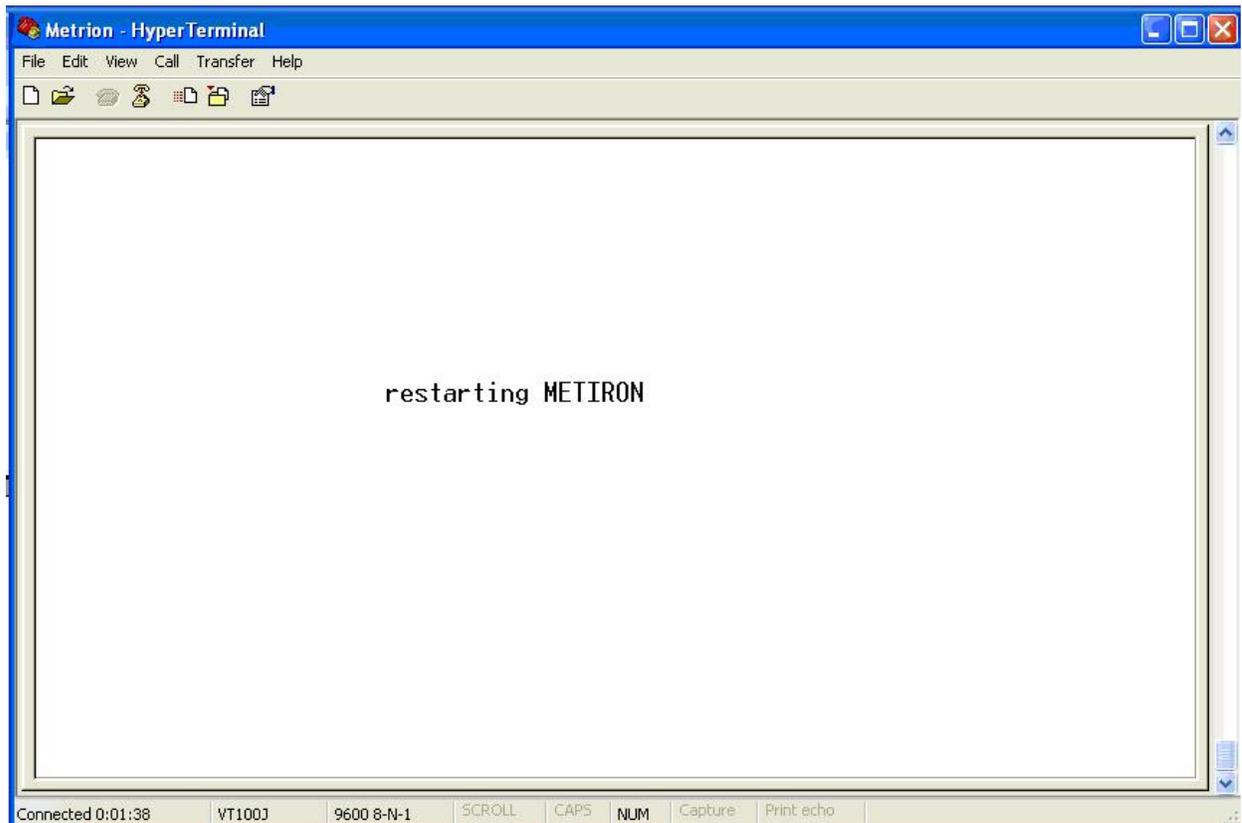
See below image.

```

Metrion - HyperTerminal
File Edit View Call Transfer Help
Polyphag V 2.0.26 (29-Mai-2008) by DIGI SENS AG 14-JUN-13 15:37:41
-----
| CELLS/SYSTEMS | DIVERS | POLYPHAG |
-----
| <D> Sens Display | <CR> Display Net | <R> Applic Config |
| <E> Env Temp Comp | <TAB> System/Cell | <S> System Config |
| <F> Env Load Cal | <M> Adjust Zero | <T> Edit Certified |
| <G> E Weight Fact. | <N> Clear Zero | <U> Stat. Output |
| <H> Env Display | <O> Date & Time | <V> Print Config |
| <I> Cell Save/Rst | <P> Global Config | <W> Printer Texts |
| <K> Sys Define | <Q> Error Buffer | <X> Print Journal |
| <L> Sys Display | <?> Service | <Y> CAN Config |
| <!> Restart |
-----
Cell 0: 0.729 T: 22.9 PPM: 460449 fL: 15717.64 fT: 1194
Connected 0:00:05 VT100J 9600 8-N-1 SCROLL CAPS NUM Capture Print echo

```

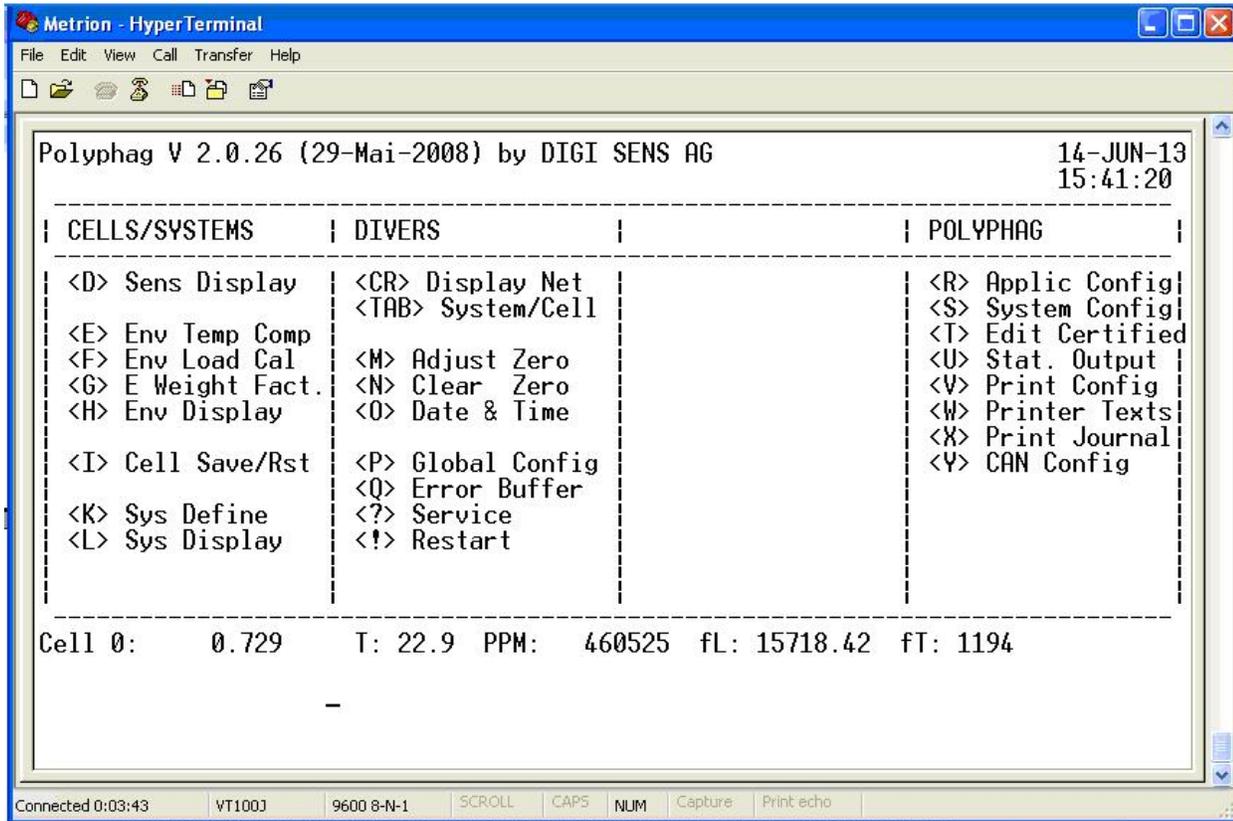
Depress SHIFT key and ! at the same time. The following screen will appear:



Clearing Error Buffer

At times, it is imperative to clear the error buffer on the Metiron.

NOTE: This should only be done when instructed by a Labrie Plus representative.



Selecting option Q will show you the following information:



Using the TAB key, select the option CLEAR THE BUFFER, and press ENTER.

Once this command is given, you will notice the system will return you to the home screen.

4

Replacement of Components

Occasionally a DigiLoad component may require replacement. Some specific items have detailed instructions which must be followed to ensure success in making the repair. Below are those instructions.

Loadcell

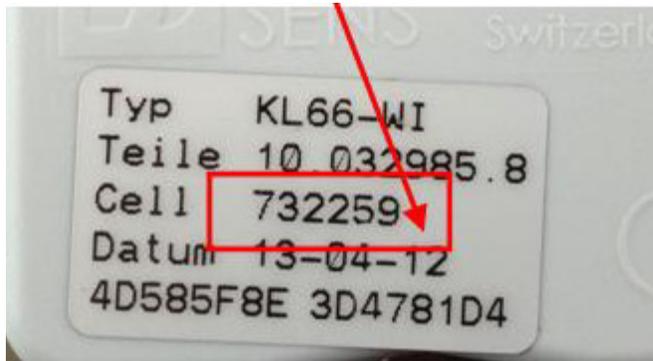
Replacing a loadcell is one of the most common repairs you may make in servicing a DigiLoad system. Each specific loadcell has its own fine calibration program which we call a EEPROM. The EEPROM must be programmed into the OBC for the cell you are changing to ensure system accuracy.

IMPORTANT: Exercise extreme caution when removing the cell cover (round one) from the cell enclosure as severe wiring damage may result.

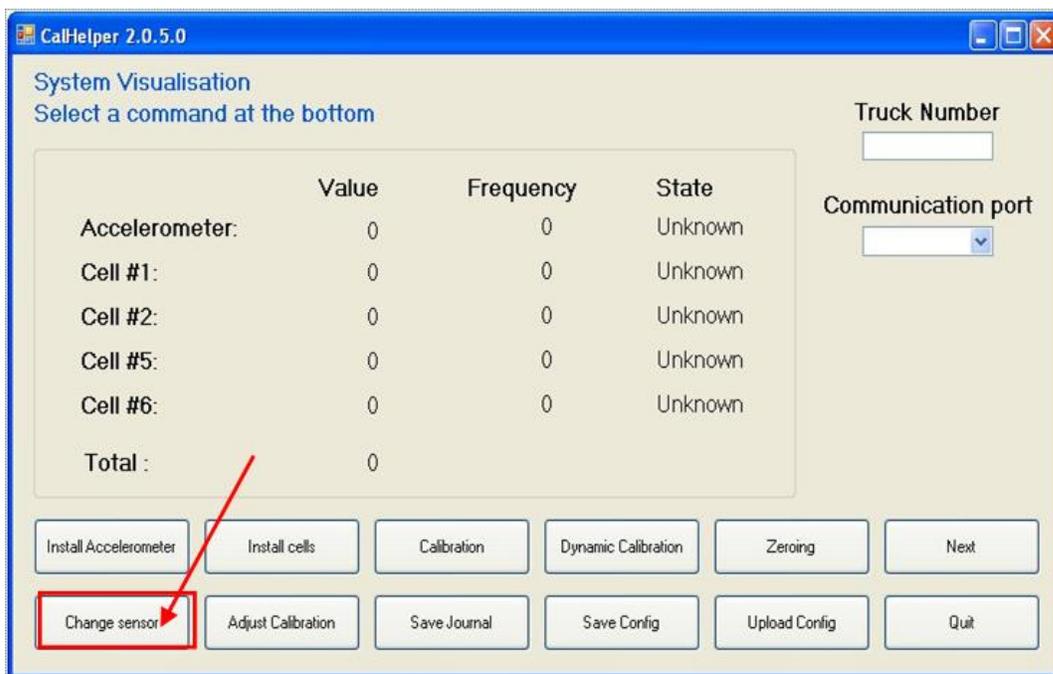
NOTE: Only replace a cell when frequency is showing zero Hz and wiring from cell to OBC is visually and electronically ok.

To replace a loadcell follow this procedure:

1. Connect laptop using CalHelper to OBC and establish connection.
2. Place lift arms at 26 degrees.
3. Remove cell covers both plastic and metal to allow access to the cell you are replacing.
4. Using a 2.5 mm Allen key, loosen and remove the hardware retaining the specific loadcell you are working with.
5. Disconnect the electrical harness from the cell and set the old cell aside.
6. Record the new cell EEPROM serial number on a sheet of paper and set it aside.



7. Carefully plug in the cell and position it in a central location within the cell enclosure and install the hardware loosely.
8. (Use a second person for this step) Using the CalHelper program on your laptop have an assistant watch the frequency readings for the two cells you are currently accessing. Apply light torque to the loadcell retention screws until you maintain no more than 1000 Hz between the two (e.g. if cell 5 shows 15,878 and you are replacing cell 6, you would not want cell 6 to read over 16,878). Once adjustment is made cell should read "stable".
9. Go to CalHelper program and select "Change Sensor" from the bottom row of icons.



10. Once this option is selected an additional screen will come up showing the EEPROM settings for each of the four loadcells. Remove the EEPROM number from the cell you are working with and type in the new number documented in step 6. Press SEND and screen will show EEPROM has been changed.

	Streetside	Curbside
Outside	00704821 ₁	00707846 ₆
Inside	00704832 ₂	<input type="text"/> ₅

11. Close out of program by hitting QUIT and reinstall the covers on the lift arms. Once the covers are installed, disconnect your laptop from the OBC and run the arms up and down a series of times. "LIFT OK" should be present on the display.

Display

Occasionally a DigiLoad display may malfunction and/or need new Firmware installed.

The process steps below need to be followed whenever replacement or reprogramming is taking place.

NOTE: Current Firmware version is 2.1.

IMPORTANT: A blank memory stick must be used for the process below or severe system damage will result.

If the display is malfunctioning or a new Firmware needs to be installed, follow this procedure:

1. Install display in vehicle.
2. Using a BLANK memory stick, install the FRM file onto your storage device.
3. With the ignition off, install the memory stick into the USB slot on the side of the display.
4. Turn on ignition and the system should automatically begin loading in the new firmware. You as the technician need to do no prompting as the system will work through the entire installation process on its own.



5. Upon completion, the system display will show that it has completed this step and the memory stick can now be removed.
6. Cycle the ignition and you can now begin the process of programming the screen. To do so:
 - 6 a. Press MENU key once and EXCEPTIONS will appear.
 - 6 b. Press the MOVE UP key once and SYSTEM CONFIGURATIONS will appear.
 - 6 c. Press ENTER and SET DATE will appear. Set the date using the UP and DOWN arrows for each specific item pressing ENTER once each specific piece of information is entered.
 - 6 d. Press MOVE DOWN and SET TIME will appear. Set the current time following the procedure outlined in step 6c.
 - 6 e. Press MOVE DOWN again and SET TRUCK ID will appear as 00000. Using the UP and DOWN arrows, program the vehicle bumper number as the customer prefers.

NOTE: There must be a truck number present in order to allow the system to save and record data.

- 6 f. Next use the UP and Down arrows to bring up CONFIGURE RS-232 PORT. Ensure this is set to ON-BOARD COMPUTER.
- 6 g. Next use the UP and DOWN arrows to bring up SET BALANCE PORT, and select enter to option RS-232.
- 6 h. Depress the MENU button twice and exit from the menu.
- 6 i. Take vehicle out for a test lift if possible and ensure weights are being logged and date/time remain on screen. Shut the vehicle off once during this test to ensure all system information remains stored in the display.

5

Basic Troubleshooting

Troubleshooting

The DigiLoad system is made up of basic components working together to make weight readings possible. Occasionally those components can fail.

The most powerful tools you have are the Journal and Configuration files.

Using these two documents allows you to be able to decipher error codes in the system, providing the user direction in being able to start in the correct area when troubleshooting.

Please see the following table for error code breakdowns:

Error/ Message Codes	Description
<i>Metiron Hardware Errors, Warnings - Category 01</i>	
01001	TPU TestProc reports internal TPU Error (Modul TPU).
01002	NVS9 (System) unreadable, Backup not available
01003	NVS9 (Application) unreadable, Backup not available
01051	Permanent Memory area reinitialised, Error–Buffer reset (Battery empty?)
01052	NVS9 (System) unreadable, Backup available and in use.
01053	NVS9 (Application) unreadable, Backup available and in use.
01054	NVS9 (System) Attempt to rewrite the EEPROM from Backup Module failed
01055	NVS9 (Application) Attempt to rewrite the EEPROM from Backup Module failed
<i>System Errors, Warnings - Category 02</i>	
02x01	System x could not be started
02x02	Measurement cycle without available weighing data (possibly a broken cell? System deactivated. Up to Polyphag 11.47)
02x1y	System x cannot find associated Cell y
02x51	System x outside legal range (weight > 9*e + maxload)
02x52	System x detected a Overload (weight > 1.5 * maxload)
02x53	System x produced more than 20 cell errors obsolete during a measurement cycle. This usually precedes the failure of a cell.
02x54	Measurement cycle without weighing data (possibly a broken cell; System is active from Polyphag 11.48)
<i>Cell Errors, Warnings - Category 03</i>	
03y01	Cell y, fL failed
03y10	Cell y, EEPROM–CRC of the Cell does not correspond to the CRC stored in NVS9.

Error/ Message Codes	Description
03y11	Newton Convergence problem
03y12	Cell y, EEPROM of the Cell unreadable
03y51	Cell y, fT out of range
03y52	Cell y, Overload occurrence
03y53	Cell y, no fL at start up
03y54	Cell y, Load below start up limit at start up
03y55	Cell y, Load above start up limit at start up
03y56	EEPROM of cell y unreadable, now using Backup Data.
03y57	EEPROM of cell y, rewrite from Backup failed
<i>Runtime Errors, Warnings - Category 04</i>	
04051	DIV BY ZERO
04052	memory-allocation-error
<i>Printer Errors, Warnings - Category 05</i>	
05051	offline / no power / cable defective
05052	Protocol Error
05053	no Paper
<i>Messages by Program Modules</i>	
16101	Observer: no new source can be registered (not enough memory), to get an new error message (error buffer).
16102	Observer: to many sources registered. no new source can be registered (not enough memory), to get an new error message (error buffer).
16104	Observer: chosen source not registered, to error message can't be send (error buffer).
16251	CellsMgr: User attempted to set zero for an accelerometer, when outside the range [0.8..1.2].
16252	CellsMgr: not enough memory
16260	CellsMgr: alls zero and service interval reset
16350	TIntf: User forced restart by watchdog

Error/ Message Codes	Description
16450	Journal: Journal not found at start up
16451	Journal: not enough memory
16550	PolyNVS9: EEPROM Data not compatible
16650	Service: not enough memory for service entry
16652	Service: Service Interval elapsed
16653	Service: Proxy switches not in good position for start up
16701	WigaRID: External RID Module not found (at start up)
16702	WigaRID: Communication with RI interrupted
16801	DynaUtil: Buffers exceed stack size
16802	In the software, an overload is detected
16810	CF- card not writeable
16851	No answer from the PC / board computer receive
16901	Blacklist: Blacklist File contains unruly characters, list deleted
16902	Blacklist: Blacklist File contains ID's which are too long, list deleted
16903	Blacklist: Blacklist File contains too short ID number, list deleted
16904	Read ID is found on the Blacklist.
16905	No ID was read. But one ID has be expected for the measurement.
16950	Blacklist: Blacklist not available inside TARGO/METIRON
16951	Blacklist: not enough memory to create Blacklist in TARGO/ METIRON.
16952	No new data can't be stored in the METIRON
16953	Blacklist: Blacklist File contains too many entries, beginning of list saved.
16954	Blacklist: Blacklist File could not be deleted from the RAM Card.
17050	PermNVS: Backup Memory for EEPROM Data reinitialised
17051	PermNVS: Not enough memory to create Backup.
17150	TOGA Internal memory not initialised

Error/ Message Codes	Description
17151	TOGA not enough memory available for data structure
17251	Geminus SW not enough memory available for data structure
<i>Start Up Messages</i>	
65000	Error Buffer reinitialised by user
65032	Restart after Watchdog.
65064	Restart after Power. off/on
65128	Restart after normal power on/off
<i>Model-Specific Options</i>	
18350	DYWA for METIRON, not enough memory for the installation of general data
18351	DYWA for METIRON, Internal memory not initialised (general data)
18450	DYWA for METIRON, not enough memory for the installation of customer printer format
18451	DYWA for METIRON, Internal memory not initialised (customer printer format)
18550	DYWA for METIRON, not enough memory for the installation of backup memory
18551	DYWA for METIRON, Internal memory not initialised (backup memory)
18650	TOGA for METIRON, not enough memory for the installation of the internal memory
18651	TOGA for METIRON, Internal memory not initialised (memory)
18652	DYWA for METIRON, not enough memory for the installation of the internal data structure, check composition
18750	TOGA for METIRON, not enough memory for the installation of the FIFO communication
18751	TOGA for METIRON, Internal memory not initialised (FIFO communication)

Error/ Message Codes	Description
18752	DYWA for METIRON, not enough memory for the installation of the internal data structure, for the ring buffer
18850	GUWA for METIRON, not enough memory for the installation of the FIFO communication
18851	GUWA for METIRON, Internal memory not initialised (FIFO communication)
18852	DYWA for METIRON, not enough memory for the installation of the internal data structure, to calculate the weights
18950	ECOLIBRA for METIRON, not enough memory for the installation of the FIFO cf-card.
18951	ECOLIBRA for METIRON, FIFO cf-card not initialised (FIFO communication)
18949	ECOLIBRA for METIRON, not enough memory for the installation of the data structure gross measurement.
18952	ECOLIBRA for METIRON, data structure gross measurement not initialised (FIFO communication)
<i>Messages from CAN</i>	
34817 0x8801	SDO answer not transmitted.
34818 0x8802	SDO Abort answer not transmitted.
34819 0x8803	SDO Request answer not transmitted.
34820 0x8804	PDO not transmitted.
34821 0x8805	ID Node not in defined limits.
34822 0x8806	Baud rate CAN can't be set.

Error/ Message Codes	Description
34823 0x8807	Parameter not in defined limits, from the initialisation of the TPDO message.
34824 0x8808	Parameter not in defined limits, from the initialisation of the RPDO message.
34825 0x8809	NMT Boot or heartbeat message not transmitted.
34976 0x88A0	No memory for new data's in the object register.
34992 0x88B0	SDO Block Upload answer not transmitted.

NOTE: The information contained in the above table is taken from the DigiSens Manual *Error Messages Given by the TargOS ToolBox for Targo and Metiron*.

File Types

The DigiLoad scale system uses two main types of files for both operation and troubleshooting.

One being the CONFIG file, which houses the parameters required for the system to operate (i.e. weight factors, system calibration information, configuration of cells, etc.).

The second is the JOURNAL file, which houses the daily records of weights collected while recording any failure codes located in the system.

Without these critical files the system would not be able to record or measure weight.

Config File

The DigiLoad system uses the Configuration File or “config” for short, to keep the directions, instructions and parameters to control and operate the DigiLoad system.

This file resides inside the Metiron and is critical for proper diagnostics.

NOTE: Before any repair or changes are made please save your journal and config files immediately after connecting.

This file houses a few common items which can be easily found by quick glance for verification if the system is currently not working (i.e. weight factors and the calculation entered by Labrie during production calibration).

```

Cell Port 1
Serial Number : 731641
Cell Type : Force
Cell Character : square
Cell CRC : 0
Cell Zero : 0.000
Startup Low Lim :
Startup High Lim :
Cell Load : -1234.396
Temperature : 25.062
Load Freq. : 14609.838
Temp. Freq. : 1202.544
SENSOR DESCRIPTOR
S Temp Cal : Done
S Temp Comp : Done
S Load Cal : Done
S Load Cal Date : 12-APR-2012 14:17
S Load Cal Degree : 2
Coefficient[0] : 0.00000000
Coefficient[1] : 1.00000000
Coefficient[2] :
S T Comp Degree : 2
Coefficient[0] : -257.22824000
Coefficient[1] : 0.21451883
Coefficient[2] : 0.00001682
S Load Zero : 0.00
S Freq Zero : 15587.22
S Load Full : 7000.00
S Freq Full : 19576.67
S Acc. Gravity : 9.81
S Temp @ Load Cal : 20.00
S Low Temperature : 10.00
S Low Temp Load A : 12000.00
S Low Temp Load B : 19000.00
S High Temperature : 30.00
S High Temp Load A : 12000.00
S High Temp Load B : 19000.00
ENVIRONMENT DESCRIPTOR
E Temp Comp : NOT Done
E Load Cal : Done
Weightfactor : 0.83817868
E Load Cal Date : 12-APR-2012 14:17
E Load Cal Degree : 1
Coefficient[0] : 0.00000000
Coefficient[1] : 1.00000000

```

You will notice on the above example, our weight factor for cell port #1 is 0.83817868. The opposing cell will be similar but with a negative factor.

Journal File

The journal file is used to extract critical data pertaining to failure codes and weight readings recorded by the Metiron.

At the top of the file, a legend is present to determine if any weights are incorrect.

```

906_journal_201212181711 - Notepad
File Edit Format View Help
list of registred weights:
vehicle #    truckID
* : weight below minimum weight
OL : overload
[] : weight is not valid
# : bin detected

```

Below this description you will find a number of lift data as shown below:

```

02-MAY-01 06:36:24 N:      220 kg
Bin :      000000000000000000
02-MAY-01 06:35:26 N: *      0 kg
Bin :      000000000000000000
02-MAY-01 06:20:36 N:      266 kg
Bin :      000000000000000000
02-MAY-01 06:16:14 N:      220 kg
Bin :      000000000000000000
02-MAY-01 06:01:11 N:      180 kg
Bin :      000000000000000000
02-MAY-01 05:58:38 N:      102 kg
Bin :      000000000000000000
02-MAY-01 05:51:56 N:       94 kg
Bin :      000000000000000000
02-MAY-01 05:51:23 N: *      2 kg
Bin :      000000000000000000
02-MAY-01 05:30:42 N:       96 kg

```

NOTE: The system will always display weights in kg. The DigiLoad display performs the conversion from kg to lbs.

```

02-MAY-01 07:36:45 ERR/WARN.  3501
02-MAY-01 07:36:46          RESTART
02-MAY-01 07:36:46 ERR/WARN.  3553
02-MAY-01 07:36:45 ERR/WARN.  3501
02-MAY-01 07:35:22          SHUTDOWN
02-MAY-01 07:28:20 ERR/WARN.  3501
02-MAY-01 07:28:20 ERR/WARN.  2054
02-MAY-01 07:28:20          RESTART
02-MAY-01 07:28:20 ERR/WARN.  3553
02-MAY-01 07:28:20 ERR/WARN.  3501
02-MAY-01 07:28:14          SHUTDOWN
02-MAY-01 07:28:06 ERR/WARN.  3501
02-MAY-01 07:28:06 ERR/WARN.  2054
02-MAY-01 07:28:06          RESTART
02-MAY-01 07:28:06 ERR/WARN.  3553
02-MAY-01 07:28:06 ERR/WARN.  3501
02-MAY-01 07:07:01          SHUTDOWN
02-MAY-01 07:06:37 ERR/WARN.  3501
02-MAY-01 07:06:38 ERR/WARN.  2054
02-MAY-01 07:06:38          RESTART
02-MAY-01 07:06:38 ERR/WARN.  3553
02-MAY-01 07:06:37 ERR/WARN.  3501
02-MAY-01 07:03:27          SHUTDOWN

```

If you are experiencing issues capturing weights and are receiving a “BAD LIFT” message on the DigiDisplay, an error code may be present (see Table on page 26).

*Reference: DigiSens document KD-228D-14 (see below).



Handbuch

Fehlermeldungen der TargOS ToolBox

für TARGO und METIRON

Inhalt

Dieses Dokument beschreibt die Fehlermeldungen des TargOS ToolBox, des Betriebssystems der Wiegerechner TARGO und METIRON.

Dokumentnummer

K228D-14



Parts List

Here is a list of common parts:

Description	Part#
Accelerometer	ELA40000
OBC (Metiron)	ELM40000-02
Display (Standard)	ELO40001
Display (Standard REBUILD)	ELO40001-R
Display (Large, upgrade)	ELO40000-01-R
Loadcell	ELC40000
Proximity switch	45103-03
Accelerometer connector (sensor side)	ELC05405
Accelerometer connector (OBC side)	ELC04404
Connector Display for ELO40000-01	ELC04775

To Contact Labrie Plus

In the U.S.

Address: 1981 W. Snell Road
Oshkosh, WI 54904

Toll Free: 1-800-231-2771

Telephone: 1-920-233-2770

General Fax: 1-920-232-2496

Sales Fax: 1-920-232-2498

Parts and warranty: During business hours, 7:00 AM to 7:00 PM Central Standard Time

Technical Support Service: Available 24 hours

In Canada

Address: 175 Route du Pont
St-Nicolas, QC G7A 2T3

Toll Free: 1-877-831-8250

Telephone: 1-418-831-8250

Service Fax: 1-418-831-1673

Parts Fax: 1-418-831-7561

Parts and warranty: During business hours, 8:00 AM to 5:00 PM Eastern Standard Time

Technical Support Service: Available 24 hours

Website: www.labriegrup.com

E-mail: sales@labriegrup.com

IMPORTANT: For technical support and parts ordering, the serial number of your vehicle is required. Therefore, Labrie Enviroquip Group recommends to keep record of the information found on the VIN plate, which is located in the cab.

labrie *plus*

Our office in the U.S.

1981 W. Snell Road
Oshkosh, WI 54904

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Telephone: 1-920-233-2770
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Part# 153137

