ALPHANUMERIC INDICATOR I310
USER MANUAL

TABLE OF CONTENTS

1. GENERAL FEATURES

- **Indicator for truck weight**
  The i310 is built to display the automatic weighing of vehicles. It has five modes:

  1. Weighing with stored tare.
  2. Weighing with provisional tare.
  3. Entry and exit weighing.
  4. Single weighing.
  5. Weighing with 0 weigh.

- **Alphanumeric System**
  It has two screens to display a constant weight, and other interactive allowing the user to view configuration parameters that are introduced through an alphanumeric keypad. It also allows you to read the various messages sent by the computer.

- **Setup Menus**
  Contains a series of menus that provide good programming team.

- **Correction factor of weight**
  Allows the possibility of applying a correction factor to the weight accomplished. This can be enabled or disabled by the user.

- **Database**
  It allows to store various parameters relating to the vehicle even as enrollment, customer, supplier, product and the tara among others. With all of them creating an historical contains all the information of the vehicles that have been weighing over time.

- **Repeat ticket**
  You may print all the tickets that are required by the option of repeat ticket.

- **Scale**
  The approval allows the team to put a shelf up to 8 cells of 700 Ω ..

- **RS-232**
  The team has 2 outputs RS-232, one for connection to a printer (40 or 80 columns) and the other for sending the weight to a PC.

- **PC Keyboard**
  You can connect a PC keyboard with a PS2 connector

- **Power Supply**
  220V.

2. DESCRIPTION OF THE EQUIPMENT

⊠   It indicates that the weight positioned on the platform is stable and that any TARE operation, accumulation operation, zeroing, etc., can be performed.

→0←   It indicates that there is no weight on the platform and that the equipment is ready for weighing.

net   It indicates that there is a TARE or that a TARE operation has been performed.

→T←   Indicates that the tare that we have carried out is blocked, that is, it will not disappear when the platform remains free from weight.

B   Indicates that we are seeing the gross weight when exist a tare.

⁂   It indicates that the equipment is programmed under special conditions (for example, with more than 6000 divisions) and that these divisions are Beyond Legal Metrology (F.M.L.).

BAT   When exist Battery option, the led indicates low battery.

Kg   The weight display indicates the weight in kg. that has been placed on the platform.

It allows to make a tare. Also one is used as key multifunction for the menu "DIMENSION BASE DATA". To the pressed being flock the data base introducing previously the erasure key.

It allows to make a autocero of the equipment.

It allows to enter the programming menu or respectively to record in memory the parameters programmed to the being pressed simultaneously with the key of "Tare" or "Intro/Print". One is used only in the programming menu.

It allows to enter a menu or to validate an introduced parameter or option to the being pressed simultaneously with the key "Fun" in the superior display of the equipment. One is used only in the programming menu.

F1   It returns at the beginning of the weighing.

F2   It allows introducing a description of the codes A, B and C. With a double click after entering TARA + INTRO can perform manual ticket.

F3   It activates/deactivates the correction factor.

F4   Key to enter the menu "Miscellaneous".

INTRO   Key that allows to enter the different submenus from the inferior display of the equipment and to validate an introduced parameter or option in him.

F5   It allows to move within the menu "Miscellaneous" of the alphanumeric display and to happen from a field to another one within such.

Shift   Allows change of capital letters to lowercase letters

ESC   Key to annul the made changes or to leave any menu.

C   Delete the last introduced character.

0(sp)   It allows to introduce number 0 and the following characters of score "space", "." and ",".

The rest of keys allow to as much introduce all the letters of the alphabet in small letter as in capital letter, in addition to the numbers.

- **Equivalence between PC and I310 keyboard:**
  We can also set the indicator by connecting a standard computer keyboard. This is useful when necessary to enter alphanumeric characters in the computer's configuration, without using the keyboard's internal indicator. Equivalence between PC and I310 keyboard:

PC keyboard	**I310** keyboard
F1	F1
F2	F2
Bloq.Mayús + Shift	F3
F4	F4
F5	F5
ESC	ESC
ENTER	ENTER
SUPRIMIR □	C

When you are using the PC keyboard you should use the Bloq.Mayús. or Shift key to enter letters in upper case. In addition, you can enter special characters by pressing Alt Gr.

3. GETTING STARTED

- Connect the indicator to the scale through the round 7 pin connector plug enabled for this in the back of the indicator.
- Connect the indicator to the power supply.
- Turn ON the switch.
- There will be a test of indicator
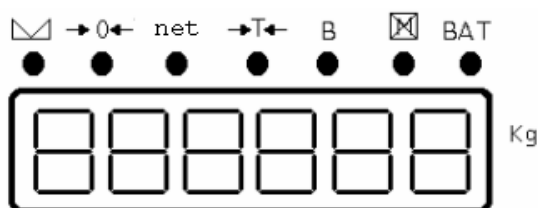
- The scale is ready for use

4. OPERATING MODES

- **WEIGHING WITH STORED TARE**
  When the PLATE number is entered, the equipment displays the following message,

  PLATE WITHOUT WEIGHING RECORD
  RECOVER STORED TARE

  And the stored TARE will be displayed on the alphanumeric screen. The equipment will automatically display the following field (PRODUCT (a)). Continue to enter the rest of the fields (SUPPLIER (b) and CUSTOMER (c)). Then we can CONFIRM THE WEIGHING OPERATION using the ↵, and the following messages will appear:

  SINGLE WEIGHING OPERATION WITH
  STORED TARE

  STORING DATA

  PRINTING TICKET

  REPRINT TICKET

- **WEIGHING WITH PROVISIONAL TARE**

    This operating mode allows to make of a instantaneous vehicle tare in the previous moment to its weighing.

    When the PLATE number is entered, the equipment displays the following message,

    > *PLATE WITHOUT WEIGHING RECORD*

    The PRODUCT (a), SUPPLIER (b) and CUSTOMER (c) data are entered. At this point, we can VALIDATE THE WEIGHING OPERATION using the ↵. The following messages are subsequently displayed:

    > *SINGLE WEIGHING WITH PROVISIONAL TARE*

    > *STORING DATA*

    > *PRINTING TICKET*

    > *REPRINT TICKET*

- **ENTRY AND EXIT WEIGHING**

    1st weighing operation: Upon entering the PLATE number, the equipment displays the following message:

    > *PLATE WITHOUT WEIGHING RECORD*

    The PRODUCT (a), SUPPLIER (b) and CUSTOMER (c) data are entered. At this point, we can VALIDATE THE WEIGHING OPERATION using the ↵. The following messages are subsequently displayed:

    > *FIRST WEIGHING OPERATION*

    > *STORING DATA*

    > *PRINTING TICKET (YES or NOT)*

    > *REPRINT TICKET*

    2nd weighing operation: Upon entering the PLATE number, the following message is displayed:

    > *PLATE WITH WEIGHING RECORD*

    The weighing operation is validated, and then the following message is displayed:

    > *SECOND WEIGHING OPERATION*

    > *STORING DATA*

    > *PRINTING TICKET*

    > *REPRINT TICKET*

- **SINGLE WEIGHING**

  Upon entering the PLATE number, the following message is displayed

  PLATE NOT RECORDED

  Enter the rest of the fields, PRODUCT (a), SUPPLIER (b) and CUSTOMER (c). After they have been entered, the TARE message appears, which allows entering the TARE using the PC keyboard (if the TARE is 0, then a weighing operation is performed with a null TARE). Now we can VALIDATE THE WEIGHING OPERATION using the F3 key on the PC keyboard, and the following messages will appear:

  SINGLE WEIGHING OPERATION

  STORING DATA

  PRINTING TICKET

  REPRINT TICKET

- **WEIGHING WITH 0 WEIGH**

  This operating mode allows to make the weighing of a vehicle without being this on the platform.

  Upon entering the PLATE number, the following message is displayed:

  PLATE NOT RECORDED

  The PRODUCT (a), SUPPLIER (b) and CUSTOMER (c) data are entered. At this point, we can VALIDATE THE WEIGHING OPERATION using the ↵. The following messages are subsequently displayed:

  SINGLE WEIGHING WITH PROVISIONAL TARE

  STORING DATA

  PRINTING TICKET

  REPRINT TICKET

5. ERROR MESSAGES

During operation of the indicator errors may occur, which will notify to the user by messages on the alphanumeric display.

- **UNSTABLE WEIGHT**

  When you try to perform a weight and the indication of the weight on the scale is unstable, the indicator displays the following message:

  WAITING FOR WEIGHT STABLE

  To force the weigh press ↵.

- **FILL DATABASES**
  When the database runs out of space, the indicator displays an error message indicating that part of the database to be deleted:

OPEN WEIGHS	-7	*When Open Weighs database is full*
LOG	-7	*When the Log is full*
STORED TARES	-7	*When Tares database is full*
CODES	-7	*When Code database is full*

- **LOAD CELL ERROR**
  When the input signal of the cell is faulty or it is disconnected, we get an error message in the display above "cell".

6. MENU

- **Alphanumeric text input**
  To enter text or numbers using the keyboard from the display using the same procedure as in a mobile phone. You can also use an external PC keyboard.

Validate the input text	*INTRO*	Press this key to validate the input text.
Cancel	*ESC*	Press this key to cancel changes.
Correct	*C*	Press this key to fix the last digit entered or delete any terms of database.

- **Choice**
  Will employ the following keys to scroll through menu options and to access them:

Next option	*F5*	Press this key to advance to the next option
OK	*INTRO*	Press this key to validate the input text
Exit	*ESC*	Press this key to exit the menu or nullify any action

- **Main menu**
  The main configuration menu or main screen consists of the following options:

  PLATE
  > With this option you can enter the vehicle registration

  PRODUCT
  > With this option you can set the type of product that is going to weigh.

  SUPPLIER
  > With this option you can set the name of the supplier.

  CLIENT
  > With this option you can enter the name of the client.

  TARE
  > With this option you can set the tare to be applied.

  VALIDATE WEIGH
  > With this option, once introduced all the options, press ↵ key to validate the weight.

  MISCELLANEOUS
  > With this option, pressing ↵, you can access to the menu "Miscellaneous".

- **Miscellaneous menu**

    To access a miscellaneous submenu press F4. This submenu presents the following options:

OPEN WEIGHS	
	SEE OPEN WEIGHING RECORDS
	PRINT OPEN WEIGHING RECORDS
	DELETE OPEN WEIGHING RECORDS
LOG	
	VIEW LOG
	LOG FILTER AND PRINT
	DELETE LOG
	ACTIVATE LOG
M./STORED TARES	
	VIEW STORED TARES
	PRINT STORED TARES
	DELETE STORED TARES
	REGISTER STORED TARES
A, B, C, CODES	
	VIEW A CODE
	VIEW B CODE
	VIEW C CODE
	PRINT CODES
	DELETE CODES
	REGISTER A CODE
	REGISTER B CODE
	REGISTER C CODE
PRINTER PARAMETERS	
	WEIGHING 1 TICKET NUM.
	WEIGHING 2 TICKET NUM.
	NUMBER OF TICKET ADVANCES
	CUTTER: YES>1 NO>0
	40/80/40C/TM 0/1/2/3
	TEXT PROGRAMMING
	PRINTER TEST
	DELAY
DELIVERY NOTE	
PASSWORDS	
	CURRENT ERASE PASSWORD
	CURRENT DB SIZE PASSWORD
	NEW ERASE PASSWORD
DATABASE SIZE	
DATA TIME DDMMYYHHMM	
TICKET NUMBER	
MINIMUM CORRECTION WEIGH	
CORRECTION PORCENTAGE	
LCD BACKLIGHT ON/OFF	
LCD CONTRAST	
LOOK CELL (Digital only)	

To move within the menu uses the following keys:

UP	**8**	Press this key to move upwards
DOWN	**2**	Press this key to move down.

The selected item is displayed in uppercase and the rest in lowercase.

6.4.1. **OPEN WEIGHINGS SUBMENU**

- *SEE OPEN WEIGHING RECORDS*
  It shows the first open weighing record stored in the display on the alphanumeric screen.

- *PRINT OPEN WEIGHING RECORDS*
  It prints all of the current open weighing records.

- *DELETE OPEN WEIGHING RECORDS*
  It deletes all the current open weighing records.

6.4.2. **LOG SUBMENU**

- *VIEW LOG*
  The equipment shows the log of weighing records on the alphanumeric screen.

- *LOG FILTER AND PRINT*
  It allows to print the log content of by printer being able applying filters to the fields PLATE (M), a CODE (A), b CODE (B), c CODE (C), START DATE (FI), and END DATE (FF).
  To move within the different fields press F5 key of the keyboard of the keyboard indicator.
  To introduce the wished filters presses the key ↵.
  Once the wished filters have been introduced to print this listing press the key "Tare" to initiate the impression of ticket.
  If you would like erase the log put a 1 in the field "TO ERASE". If you want to make the opposite put a 0. All the weighing that verified the filter will be erased.
  The dates are introduced in format DDMMAA (day month year).

- *DELETE LOG*
  The log of weighing records of the equipment is deleted.

- *ACTIVATE LOG*
  It allows to activate and deactivate the log.

6.4.3. **M./STORED TARES SUBMENU**

- *VIEW STORED TARES*
  The equipment shows the currently stored TAREs on the alphanumeric screen.

- *PRINT STORED TARES*
  All the current TAREs stored in the equipment are printed.

- *DELETE STORED TARES*
  All the current TAREs stored in the equipment are deleted.

- *REGISTER STORED TARES*
  For registering stored TAREs: First, enter the plate number and press ↵, then enter the TARE to be stored and press ↵. The following message then appears: STORED or PLATE/TARE OVERWRITTEN.

6.4.4. **A, B, C CODES SUBMENU**

- *VIEW A CODE*
  The alphanumeric display shows the various values of the reference stored corresponding to code "a."

- *VIEW B CODE*
  The same as with code "a " but for code " b."

- *VIEW C CODE*
  The same as with code " a" but for code "c."

- *PRINT CODES*
  It prints the codes on the printer.

- *DELETE CODES*
  It deletes the stored codes.

- *REGISTER A CODE*
  This option allows registering a reference and a description that correspond to code "a." Upon entering this reference, the equipment momentarily displays the description of the same, and it also appears printed on the ticket.

- *REGISTER B CODE*
  The same as with code "a ".

- *REGISTER C CODE*
  The same as with code "a ".

6.4.5. **PRINTER PARAMETERS SUBMENU**

- *WEIGHING 1 TICKET NUM.*
  It allows configuring the number of tickets to be printed in the first weighing operations. In the event that it has a value of 1, the program gives the option to repeat. This parameter can be given a maximum value of 10.

- *WEIGHING 2 TICKET NUM.*
  It allows configuring the number of tickets to be printed in the second weighing operations. In the event that it has a value of 1, the program gives the option to repeat. This parameter can be given a maximum value of 10.

- *NUMER OF TICKET ADVANCES*
  It allows programming how much a ticket advances every time a ticket is printed.

- *CUTTER: YES>1 NO>0*
  It allows programming if a cutter is used for the ticket (value of 1) or if it is not used (value of 0). If the printer has this option.

- *40/80/40C/TM   0/1/2/3*
  It allows programming the ticket using 40 columns (value of 0), 80 columns (value of 1) or 40 condensed columns (value of 2) and for the TMU295 (value of 3).

- *TEXT PROGRAMMING*
  It allows modified the followint texts:

  > Line 1: Equipment header
  > Line 2: Weigh header
  > Line 3: Vehicles header
  > Line 1: Footer → Observations
  > Line 2: Footer → Agreed
  > Code A → Product
  > Code B → Supplier
  > Code C → Customer
  > Code M → Plate

- *PRINTER TEST*
  It prints the number of columns programmed: two lines with 40 characters or one line with 80 characters (depending on the quantity that may have been programmed), the space of a single line, the space of a double line and a message printed in bold.

- *DELAY*
  This delay is generated when the log is printed so that the printer buffer does not become saturated. In order to determine the correct delay, tests must be run until

information is not lost. As an example, we know that a printer with a buffer of 500 bytes generates a delay with a value of 15.

6.4.6. DELIVERY NOTE

It shows the number of delivery note of the actual weighing.

Can be modified with key C or introducing a new value and pressing ↵.

6.4.7. PASSWORDS

- *CURRENT ERASE PASSWAORD*
  This option is used to enter the delete password that allows deleting the OPEN WEIGHING RECORDS, the STORED TARES, the a, b and c CODES and the LOG if entered correctly.

- *CURRENT DB SIZE PASSWORD*
  For entering the password that allows modifying the database size.

- *NEW ERASE PASSWORD*
  It allows entering a new delete password in the event that the CURRENT DELETE PASSWORD has been entered correctly.

6.4.8. DATABASE SIZE

This option allows varying the available quantity of records in the memory for the following: Open Weighing Records (PA), Stored TAREs (TM), a, b and c CODES (A, B, C) and also the Log (H).

- o To move within different registers press F5.
- o To erase the quantity of current register press C key.
- o To introduce data press ↵.

A value of 0 can be entered. When a new value is entered, the percentage of occupied memory is displayed. In the event that the entered values occupy more than 100%, the program does not allow exiting the option until a correction is made, there by showing the message, INC. DATABASE SIZE.

In order to be able to modify these values, it is first necessary to have correctly entered the DELETE PASSWORD.

6.4.9. DATA TIME DDMMYYHHMM

In order to modify the date and time parameters, they are entered in the DDMMYYHHMM format.

6.4.10. TICKET NUMBER

With each weighing operation, this counter increases.

6.4.11. MINIMUM CORRECTION WEIGH

It allows to program the minimum weight from which the correction factor will be applied.

7. EQUIPMENT CONNECTORS

- ## LOAD CELL WIRING CONNECTION SYSTEM

CABLE CONNECTOR (SEEN BY WELDS)
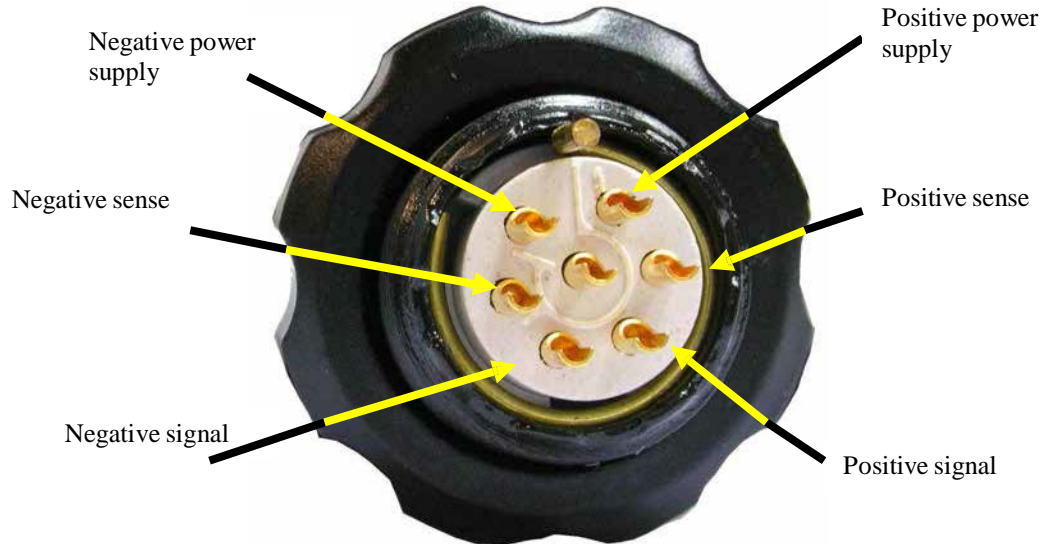
- ## RS-232 WIRING CONNECTION SYSTEM

PIN	SIGNAL
7.3. 1	N.C.
2	RXD (RS-232)
3	TXD (RS-232)
4	N.C.
5	GND (RS-232)

RS-232 protocol:
- Speed: 9600 baud rate
- Parity: NO
- Data bit: 8
- Stop bit: 1 ó 2
- Handshaking: XonXoff

8. PRINTER

The recommended printers are:
- LX-300 de EPSON
- SRP 275 de SAMSUNG
- TM-U295 de EPSON

- ## PRINTER CONNECTION CABLE EPSON LX-300

DISPLAY
9 PINS FEMALE

PRINTER
25 PINS MALE
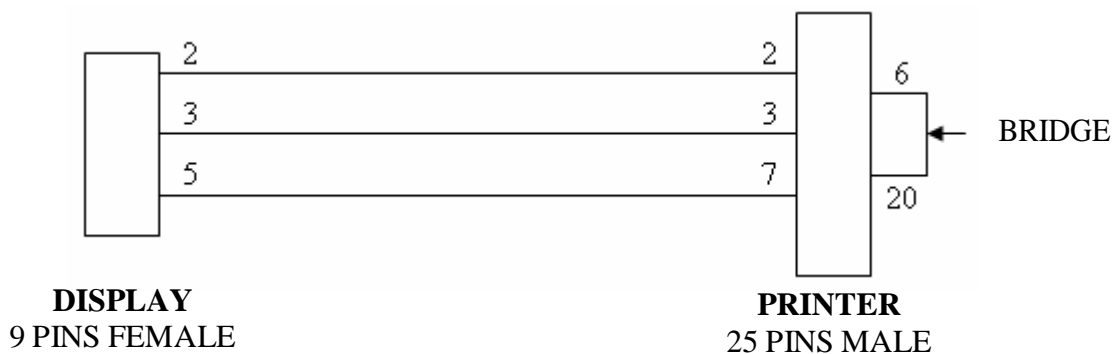
- **PRINTER CONNECTION CABLE SAMSUNG SRP 275**

DISPLAY
9 PINS FEMALE

PRINTER
25 PINS MALE
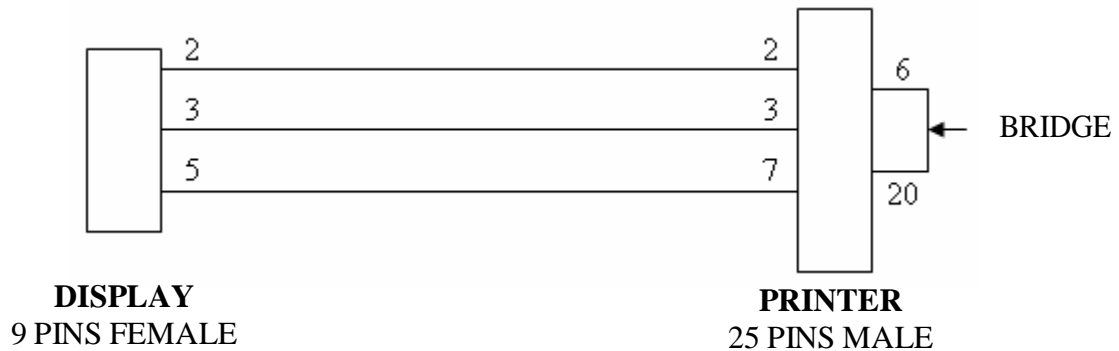
- **PRINTER CONNECTION CABLE EPSON TM-U295**

DISPLAY
9 PINS FEMALE

PRINTER
25 PINS MALE
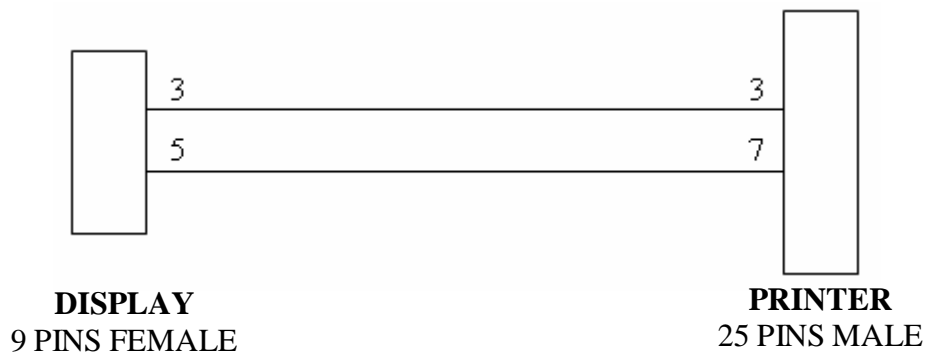
9. COMMUNICATIONS PROTOCOL

The I310 has two frames, they are programmed to 9600 baud, 8 bit word, no parity, 1 stop bit.

Frame 1:

SOH	STX	01	GROSS	STX	02	TARE	STX	03	NET	CR	LF

SOH: Start Frame
STX: Start Text
01: Start Block 01 (Gross)
GROSS: Information relating to the Gross weight. Occupies 17 bits.
STX: Start Text
02: Start Block 02 (Tare)
TARE: Information relating to the Tare weight. Occupies 10 Bits.
STX: Start Text
01: Start Block 03 (Net)
NET: Information relating to the Net weight. Occupies 10 Bits.
CR: Carry Return.
LF: Line Feed.

Frame 2:

STX	DEC	SG	GROSS	SP	SP	SP	SP	"0"	CR	LF

STX: Start Text
DEC: Information relating to the decimal point
      "*"   0 decimals
      "+"   1 decimal
      ","   2 decimals
      "-"   3 decimals
SG: Information relating to the signus
      "p"   positive weigh
      "r"   negative weigh
GROSS: Information relating to the Gross weight. Occupies 7 bits.
CR: Carry Return.
LF: Line Feed.

The cable used to communicate with various peripheral equipment will be a null modem cable that meets the standard RS232-C.

According to the indicator is configured, it can send frames at the request or sending continuous.

Request of frame 1:

SOH	CR	LF

Request of frame 2:

STX	CR	LF

10. TECHNICAL SPECIFICATIONS AND METROLOGICAL

Model: I310	AlphaNumeric Indicator
Class:	III
Maximum number of divisions:	δ 6000
Temperature Range:	-10°C / +40°C
Requirements power supply (V AC):	220 V +10%/-15%
CE Certificate	CEM nº: 080720001

11. APPENDIX

- **TICKETS**

```
FIRST WEIGHING

        CHATARRAS Hnos. ALONSO
     Carretera Nacional 644, km 43
 (junto gasolinera) c.p. 08800 Barcelona

PLATE .................... 7477AAA

PRODUCT ....    A1....steel scrap

             DATE        TIME       WEIGHT
WEIGHT(1):  23/11/02    17:44       810 Kg

agreed:
OBSERVATIONS:


SECOND WEIGHING

        CHATARRAS Hnos. ALONSO
     Carretera Nacional 644, km 43
 (junto gasolinera) c.p. 08800 Barcelona

DELIVERY NOTE....................     0007

PLATE .................... 7477AAA

PRODUCT ....    A1....steel scrap

CUSTOMER ....CCC100.... N foundry

             DATE        TIME       WEIGHT
GROSS:      23/11/02    18:01      9870 Kg
TARE:       23/11/02    17:44       810 Kg
NET:                              9060 Kg

agreed:
OBSERVATIONS:


SINGLE WEIGHING WITH STORED TARE

        CHATARRAS Hnos. ALONSO
     Carretera Nacional 644, km 43
 (junto gasolinera) c.p. 08800 Barcelona

DELIVERY NOTE....................     0005

PLATE .................... 4582 HYD

PRODUCT ....    A2....alum. scrap

SUPPLIER ....    2....   City government

             DATE        TIME       WEIGHT
GROSS:      23/11/02    17:42      9200 Kg
TARE:       MAN-MEM                 980 Kg
NET:                              8220 Kg

agreed:
OBSERVATIONS:
```

```
PRINTOUT OF OPEN WEIGHING RECORDS

PRINTOUT OF OPEN WEIGHING RECORDS  17:46 23:11:02
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
 7477AAA A1
WEIGHT    DATE      TIME       POSITION
   810 Kg 23/11/02 17:44         0
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
 8888DDD      A2              CCC400
WEIGHT    DATE                TIME
          POSITION
   960 Kg 23/11/02 17:46         1
----------------------------------------


LOG PRINTOUT

LOG PRINTOUT    18:19 23:11:02
----------------------------------------
---------FILTER CHARACTERISTICS---------
PLATE     PRODUCT   SUPPLIER CUSTOMER

START DATE    END DATE
000000        999999
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
4582 HYD      A1          2
TARE      DATE      TIME       POSITION
   980 Kg MAN-STORED             0
GROSS     DATE      TIME       NET
  9270 Kg 23/11/02 17:37        8290 Kg
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
4185 KGH      A3              CCC200
TARE      DATE      TIME       POSITION
   400 Kg MAN-STORED             1
GROSS     DATE      TIME       NET
  9220 Kg 23/11/02 17:39        8820 Kg
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
4582 HYD      A2          2
TARE      DATE      TIME       POSITION
   980 Kg MAN-STORED             2
GROSS     DATE      TIME       NET
  9200 Kg 23/11/02 17:42        8220 Kg
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
 8888DDD      A2              CCC400
TARE      DATE                TIME
          POSITION
   960 Kg 23/11/02 17:46         3
GROSS     DATE      TIME       NET
  9870 Kg 23/11/02 17:59        8910 Kg
----------------------------------------
PLATE     PRODUCT   SUPPLIER CUSTOMER
 7477AAA      A1              CCC100
TARE      DATE      TIME       POSITION
   810 Kg 23/11/02 17:44         4
GROSS     DATE      TIME       NET
  9870 Kg 23/11/02 18:01        9060 Kg
----------------------------------------
               TOTAL GROSS       47,430 Kg
               TOTAL TARES        4130 Kg
WEIGHING RECORDS 5   TOTAL NET S       43,300 Kg
```

```
PRINTOUT OF STORED TARES

PRINTOUT OF STORED TARES 17:32 23:11:02
----------------------------------------
PLATE                             TARE
----------------------------------------
B 1234GH.....................  2300 Kg
GU1285AA.....................  3210 Kg
M 2158FV.....................  7600 Kg
4582 HYD.....................   980 Kg
VE1234AA.....................  5810 Kg
GI 1284AD....................  3400 Kg
BI 5167CR....................  3280 Kg
1744 FTS.....................  7850 Kg
7571 PRD.....................  7660 Kg
----------------------------------------


CODE PRINTOUT

      CODE PRINTOUT 19:22 23:11:02
----------------------------------------
CODE A  PRODUCT          DESCRIPTION
----------------------------------------
     A1.................steel scrap
     A2.................alumn. scrap
     A3................. mixed scrap
----------------------------------------
CODE B  SUPPLIER         DESCRIPTION
----------------------------------------
     1..................desguaces SUAREZ
     2.................. City government
     3.................. A.Garcia SCP
     4..................   ECO-EQUIP
     5.................District community
----------------------------------------
CODE C  CUSTOMER         DESCRIPTION
----------------------------------------
CCC100................. N foundry
CCC200................. ALTOS HORNOS V.
CCC300.................ind. foundry
CCC400................. ALUPACK packaging
----------------------------------------
```

- **TABLE OF MAXIMUM CAPACITY OF THE FIELDS**

FIELD	MAX NUMBER CHARACTERS
Plate	**10**
Tare	**6**
Product Code (A)	**8**
Supplier Code (B)	**8**
Client code (C)	**8**
Product Description (A)	**16**
Supplier Description (B)	**16**
Client Description (C)	**16**
Number ticket	**4**
Headline	**3 lines x 40**
Foot	**2 lines x 40**

- **OPERATING WEIGHT FACTOR CORRECTOR**
  The equipment allows a weight factor, both subtractive and additive, but these be reflected in the ticket.

  ### 11.3.1. PROGRAMMING OF THE CORRECTION FACTOR
  To activate or deactivate the correction factor using the F7 key. This applies from the minimum weight program under the "Miscellaneous".

  Example:

  The first step when working with correction factor is the configuration of the minimum weight at which to apply it. For this purpose falls within the "Miscellaneous" by pressing F4.

  Once inside, press the button until the menu ↓ 8 "Minimum weight correction." When this menu pressed ↵ into it.

  Using the number keys enter the minimum weight is desired and is validated by using ↵. If on the contrary, we want to quit without saving, press the ESC key.

  To exit the menu "Miscellaneous", press the ESC key and the main screen appears again.

  Then within the same menu "Miscellaneous" should be set by the thousand of the correction factor.

  Using the number keys enter the desired value is, and the F1 key variable is the sign of the correction factor (+ or additive -: subtractive). To validate the selected value press ↵. And if you want to quit without saving using ESC.

  Finally, to apply the correction factor while weighing using F7. And that applies (see a point in the last decimal digit) or not.

- **ASCII SYMBOL TABLE**

Dec.	Hexa.	Símbolo	Definición	Dec.	Hexa.	Símbolo	Definición
00	00	NUL	Null	17	11	DC1	Device Control 1 (Xon)
01	01	SOH	Start Of Heading	18	12	DC2	Device Control 2
02	02	STX	Start of Text	19	13	DC3	Device Control 3 (Xoff)
03	03	ETX	End of Text	20	14	DC4	Device Control 4
04	04	EOT	End Of Transmission	21	15	NAK	Negative Acknowledge
05	05	ENQ	Enquiry	22	16	SYN	Synchronous idle
06	06	ACK	Acknowledge	23	17	ETB	End of Transmission Block
07	07	BEL	Bell	24	18	CAN	Cancel
08	08	BS	Backspace	25	19	EM	End of Medium
09	09	HT	Horizontal Tabulation	26	1A	SUB	Substitute
10	0A	LF	Line Feed	27	1B	ESC	Escape
11	0B	VT	Vertical Tabulation	28	1C	FS	File Separator
12	0C	FF	Form Feed	29	1D	GS	Group Separator
13	0D	CR	Carriage Return	30	1E	RS	Record Separator
14	0E	SO	Shift Out	31	1F	US	Unit Separator
15	0F	SI	Shift In	32	20	SP	Space
16	10	DLE	Data Link Escape				