

INDEX
1 DECLARATION CE OF CONFORMITY
2 GENERAL WARNINGS
3 SAFETY INSTRUCTIONS
4 ATTENTION
5 FIRST AID RULES
6 TO KNOW SB325 X M
7 PACKAGING
8 TECHNICAL CHARACTERISTICS
9 INSTALLATION
10 USE MODALITY
11 MECHANICAL CHARACTERISTICS
12 PRELIMINARY CHECK
13 INITIAL START UP
14 WHAT IT LOOKS LIKE
15 DAILY USE
16 CALIBRATION
17 METER CONFIGURATION
18 MAINTENANCE
19 MALFUNCTIONS
20 DEMOLITION AND DISPOSAL

1 DECLARATION CE OF CONFORMITY

The undersigned, PIUSI S.p.A. Via Pasquetti 15/A - 20090 Sesto San Giovanni (MI) - Italy
HEREBY STATES under its own responsibility that the equipment described below:
Description: Dispenser nozzle featuring integrated meter
Model: SB325 X M
Serial number: refer to Lot Number shown on CE plate affixed to product
Year of manufacture: refer to the year of production shown on the CE plate affixed to the product
is in conformity with the legal provisions indicated in the directives:
- Electromagnetic Compatibility Directive 2014/30/EU
The documentation is at the disposal of the competent authority following motivated request at Piusi S.p.A. and upon request sent to the email address: doc.leg@piusi.com. The person authorised to compile the technical file and draw up the declaration is Ota Varini as legal representative.

2 GENERAL WARNINGS

Warnings
To ensure operator safety and to protect the dispensing system from potential damage, workers must be fully acquainted with this instruction manual before attempting to operate the dispensing system.
The following symbols will be used throughout the manual to highlight safety information and precautions of particular importance.
ATTENTION
This symbol indicates safe working practices for operators and/or potentially exposed persons.
WARNING
This symbol indicates that there is risk of damage to the equipment and/or its components.
NOTE
This symbol indicates useful information.

Manual preservation
This manual should be complete and legible throughout. It should remain available to end users and specialist installation and maintenance technicians for consultation at any time.

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3 SAFETY INSTRUCTIONS

- ATTENTION: You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.
Maintenance control: Before any checks or maintenance work are carried out, disconnect the power source.
FIRE AND EXPLOSION: Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline. Do not plug or unplug power cords or turn lights on or off when flammable fluids are present in the work area.
ELECTRIC SHOCK: This equipment must be grounded. Improper grounding, setup or usage of the power can cause electric shock.
Electrocution or death: Turn off and disconnect power cord before servicing equipment. Connect only to a grounded electrical outlet. Use only 3 wire extension cords in accordance with local electrical codes. Extension cords should have a ground lead. Never touch the electric plug of socket with wet hands.

10 USE MODALITY

10.1 MECHANICAL CHARACTERISTICS
The main feature of these nozzles is that they are easy to use. Two operating modes are available.
Dispense by operating the nozzle lever. To interrupt dispensing manually, release the lever.
Use the opening lever lock device for automatic dispensing. To continue dispensing after automatic stop, the lever must be fully released before proceeding to operate it again.
To interrupt dispensing in manual mode, press the lever again, thereby releasing the device, and then release.
DO NOT USE THE NOZZLE OUTSIDE THE PARAMETERS INDICATED ON THE "TECHNICAL SPECIFICATIONS" CHART
Dispensing is automatically interrupted thanks to the shut-off device, which operates when the level of the liquid reaches the end of the spout.

10.2 ELECTRONIC CHARACTERISTICS

The user can choose between two different operating modes:
1 - Normal Mode
2 - Flow rate Mode
NOTE
Do not leave the work area while equipment is engaged or under pressure. Turn off all equipment when equipment is not in use. Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not link or core bend hoses or use hoses to pull equipment. Keep children and animals away from work area. Comply with all applicable safety regulations. Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns do not touch hot fluid or equipment. Read MSDS to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. Prolonged contact with the treated product may cause skin irritation or ways wear protective gloves during dispensing.

4 GENERAL SAFETY RULES

Essential protective equipment characteristics
ATTENTION
Wear protective equipment that is suited to the operations that need to be performed; resistant to cleaning products.
It is a good practice to consider the instructions manual as an integral part of the purchased product. Always keep the instructions manual nearby for the product.

DISPENSING WITH FLOW RATE MODE DISPLAY
PARTIAL RESET (FLOW RATE MODE) CALIBRATION WHY CALIBRATE? DEFINITIONS KEY CALIBRATION MODE DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR IN-FIELD CALIBRATION 16.4.2 IN-FIELD CALIBRATION PROCEDURE DIRECT MODIFICATION OF K FACTOR METER CONFIGURATION MAINTENANCE MALFUNCTIONS MECHANICAL MALFUNCTIONS ELECTRONIC MALFUNCTIONS DEMOLITION AND DISPOSAL DIMENSIONS / EXPLODED VIEW SPOUT REPLACEMENT

5 FIRST AID RULES

Please refer to the safety data sheet for the product.
When operating the dispensing system and in particular during refuelling, do not smoke and do not use open flame.
Keep the product to be dispensed away from eyes and skin. Keep the product to be dispensed out of reach of children. The nozzle must only be used for the purposes for which it was designed. Using unsuitable component parts and materials could be hazardous. Not checking correct part installation could be hazardous.

6 TO KNOW SB325 X M

Dispenser nozzle featuring integrated meter, made of non-conductive plastic and designed for use with water/area solution (AUS32/DEF). The meter integrated with the SB325 X M nozzle uses a turbine measuring system and interfaces with the user by means of the LCD display. SB325 X M is also compatible with water and food liquids.

Water/area solution - dEF - Aus 32, according to EN 70070, water, wind meter to the product technical sheets

7 PACKAGING

The nozzles are supplied packed in cardboard boxes with label showing following details:
1 - Package contents
2 - Weight
3 - Product description

8 TECHNICAL CHARACTERISTICS

Table with 8 columns: Description, Max. flow rate (l/min), Max. flow (l/min), Pressure loss (bar), Int. thread with solvent, External diameter (mm), Flow range (l/min), Max. operating pressure (bar), Weight (kg). Row 1: SB325 X M, 15, 45, 0.9, 1/2" GAS, 20, 3.5, 0.8

9 INSTALLATION

The automatic nozzles are supplied ready for use. The nozzle features SWIVEL hose-end fitting (complete with O-ring) useful for connecting to the supply hose.

To ensure perfect operation, the device must be used to dispense fluids with characteristics falling within the following parameters:
Omin.: 15 l/min - Omax.: 45 l/min
Pmin.: 1.5 bar - Pmax.: 3.5 bar

During installation, use adequate sealants, being careful no residues remain inside the hose. Do so as not to negatively affect product operation, couple the hose and fitting with the hose without using tools such as pliers, etc. Assembly will be easier if the swivel hose-end fitting is already fitted on the nozzle. Make sure the hoses and the suction tank are without threading scale or residues which could damage the nozzle and the accessories.

Apply adequate sealants on the male threads of the connections and on the nozzle. Do not use Teflon tape

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DO NOT USE THE NOZZLE OUTSIDE THE PARAMETERS INDICATED ON THE "TECHNICAL SPECIFICATIONS" CHART
Dispensing is automatically interrupted thanks to the shut-off device, which operates when the level of the liquid reaches the end of the spout.

10.2 ELECTRONIC CHARACTERISTICS

The user can choose between two different operating modes:
1 - Normal Mode
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NOTE
Do not leave the work area while equipment is engaged or under pressure. Turn off all equipment when equipment is not in use. Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not link or core bend hoses or use hoses to pull equipment. Keep children and animals away from work area. Comply with all applicable safety regulations. Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns do not touch hot fluid or equipment. Read MSDS to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. Prolonged contact with the treated product may cause skin irritation or ways wear protective gloves during dispensing.

11 MISFILLING (optional)

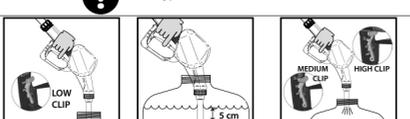
Refuelling with the nozzle equipped with "magnet switch" is only possible in combination with the "magnet adapter", so misfilling into tanks is made impossible

OPERATION

The "magnet switch" is a fixed magnetic field within the filler necks of the nozzle. This opens the magnet switch in the spout, so it is only possible to dispense from the tank where the magnet adapter is installed. Nozzles equipped with "magnet switch" work only in combination with the "magnet adapter". The "magnet adapter" is an optional to be bought separately.

12 PRELIMINARY CHECK

Check the correct operation of the lock device, according to the following procedure:



- 1 - Take a graduated recip 3 - Keeping the lever open, make 5 - Repeat the same operations with a spout 1, submerged by about 5 cm (2 inches).
2 - Begin dispensing into the re- 4 - The nozzle must stop, with a click of the lever.
7 - If the shut-off device does not begin to operate, check the minimum flow rate of the system or replace the nozzle.

13 INITIAL START UP

Only start dispensing after making sure that assembly and installation have been correctly performed.

It is a good practice to only operate the nozzle lever after making sure the spout has been properly inserted in the mouth of the tank to be filled.

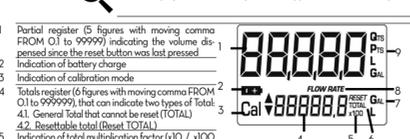
When using for the first time and every time the nozzle is used, following the connection of the supply hose, gently operate the lever to enable the air to escape from the circuit, until normal operation is achieved.

Check the correct operation of the stop device as described above.

The faulty operation of this device could cause the spill of liquids that are hazardous for people and the environment.

14 WHAT IT LOOKS LIKE

The "LCD" of the METER features two numerical registers and various indications displayed to the user only when the applicable function so requires.



- 1 Partial register (5 figures with moving comma FROM 0.1 to 99999) indicating the volume dispensed since the reset button was last pressed
2 Indication of battery charge
3 Indication of calibration mode
4 Totals register (6 figures with moving comma FROM 0.0 to 999999) that can indicate two types of Total: 41. General Total that cannot be reset (TOTAL) 42. Resettable total (Reset TOTAL)

Indication of type of total (TOTAL / Reset TOTAL)
Indication of unit of measurement of Totals: L-Litres Gal-Gallons
Indication of Flow Rate mode
Indication of unit of measurement of Partial: Qts-Quarts Pts-Pints L-Litres Gal-Gallons

14.1 USER BUTTONS

The METER features two buttons (RESET and FLOWRATE) which individually perform two main functions and, together, other secondary functions.
- For the RESET key, resetting the partial register and Reset Total
- For the FLOWRATE key, entering instrument configuration mode

Used together, the two keys permit entering configuration mode where the desired unit of measurement can be set. Calibrate means performing actions on the meter keys. Below is the legend of the symbols used to describe the actions to be performed

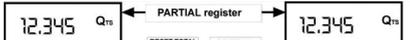
14.2 BATTERY HOUSING

METER is powered by two 15V standard type batteries (size AAA). The battery housing is easily accessible and is closed by a cover with seal. Everything is easily removable by taking off the rubber protection around the nozzle and loosening the screws which secure the cover.

15 DAILY USE

The only operations that need to be done for daily use are partial and/or resettable total register resetting. The user should use only the dispensing system of METER. Occasionally the meter may need to be configured or calibrated. To do so, please refer to the relevant chapters.

Below are two typical normal operation displays. One display page shows the partial and reset total registers. The other shows the partial and general total. Switchover from resettable total to general total display is automatic and takes place in steps and times that are in factory set and cannot be changed.



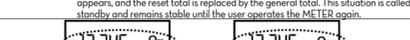
6 digits are available for Totals, plus two icons x 10 / x100. The increment sequence is the following: 0.0 - 99999.9 - 999999 - 1000000 - 10 - 9999999 - 10 - 1000000 - 100 - 9999999 - x100

15.1 DISPENSING IN NORMAL MODE

Normal mode is the standard dispensing. While the count is made, the partial and resettable total are displayed at the same time (reset total).

Should one of the keys be accidentally pressed during dispensing, this will have no effect.

A few seconds after dispensing has ended, on the lower register, the display switches from resettable total to general total; the word reset above the word total disappears, and the reset total is replaced by the general total. This situation is called standby and remains stable until the user operates the METER again.



15.1.1 PARTIAL RESET (NORMAL MODE)

The partial register can be reset by pressing the reset key when the meter is in standby, meaning when the display screen shows the word "TOTAL".

After pressing the reset key during reset, the display screen first of all shows all the lit-up digits and then all the digits that are not lit up.



At the end of the process, a display page is first of all shown with the reset partial and the reset total.

and, after a few moments, the reset total is replaced by the non resettable Total.



When the Factory Factor is confirmed, the old User factor is deleted from the memory

15.1.2 RESETTING THE RESET TOTAL

The reset total resetting operation can only be performed after resetting the partial register. The reset total can be reset by pressing the reset key at length while the display screen shows reset total as on the following display page. Schematically, the steps to be taken are:

- 1 Wait for the display to show normal standby display page (with total only displayed)
2 Press the reset key quickly
3 The meter starts to reset the partial
4 While the display page showing the reset total is displayed Press the reset key again for at least 1 second



The display screen again shows all the segments of the display followed by all the switched-off segments and finally shows the display page where the reset Reset Total is shown.

15.2 DISPENSING WITH FLOW RATE MODE DISPLAY

It is possible to dispense fluids, displaying at the same time:

- 1 the dispensed partial
2 the Flow Rate in [Partial Unit / minute] as shown on the following display page.

Procedure for entering this mode:

- 1 wait for the Remote Display to go to Standby, meaning the display screen shows Total only
2 quickly press the FLOWRATE key.
3 Start dispensing

The flow rate is updated every 0.7 seconds. Consequently, the display could be relatively unstable at lower flow rates. The higher the flow rate, the more stable the displayed values.

The flow rate is measured with reference to the unit of measurement of the Partial. For this reason, in case of the unit of measurement of the Partial and Total being different, as in the example shown below, it should be remembered that the indicated flow rate relates to the unit of measurement of the partial, in the example shown, the flow rate is expressed in Qts/min.

The word "Cal" remaining alongside the flow rate refers to the register of the Totals (Reset or NON Reset) which are again displayed when exiting from the flow rate reading mode. To return to "Normal" mode, press the FLOWRATE key again. If one of the two keys RESET or FLOWRATE is accidentally pressed during the count, this will have no effect. Even though in this mode they are not displayed, both the Reset Total and the General Total (Total) increase. Their value can be checked after dispensing has terminated, returning to "Normal" mode, by quickly pressing FLOWRATE.

then quickly press RESET

15.2.1 PARTIAL RESET (FLOW RATE MODE)

To reset the Partial Register, finish dispensing and wait for the Remote Display to show a Flow Rate of 0.0 as indicated in the illustration.



16 CALIBRATION

16.1 WHY CALIBRATE?

When working in extreme operating or flow conditions, (close to minimum or maximum acceptable range values), it may be a good idea to calibrate in the field, in real conditions in which the SB325 X M has to work.

16.2 DEFINITIONS

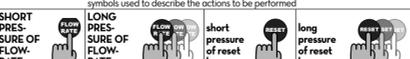
Multiplication factor applied by the system to the electrical pulses received, to transform these into measured fluid units.

Factory set default factor. It is equal to 1000. This calibration factor ensures utmost precision in the following operating conditions:
Fluid: water/area solution or liquid food product
Temperature: 20°C
Flow rate: 10 - 30 l/min
Even after any changes have been made by the user, the factory k factor can be re-stored by means of a simple procedure.

Customized calibration factor, meaning modified by calibration.

16.3 KEY

Calibrate means performing actions on the meter keys. Below is the legend of the symbols used to describe the actions to be performed



16.4 CALIBRATION MODE

Why calibrate?
1 Display the currently used calibration factor.
2 Return to factory calibration (Factory K Factor) after a previous calibration by the user.
3 Change the calibration factor using one of the two previously indicated procedures.

Two procedures are available for changing the Calibration Factor:
In-Field Calibration, performed by means of a dispensing operation
Direct Calibration, performed by directly changing the calibration factor

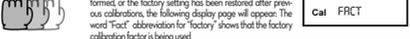
In calibration mode, the partial and total dispensed quantities indicated on the display screen take on different meanings according to the calibration procedure phase. In calibration mode, the METER cannot be used for normal dispensing operations. In "Calibration" mode, the totals are not increased.

The METER features a non-volatile memory that keeps the data concerning calibration and total dispensed quantity stored for an indefinite time, even in the case of a long power break; after changing the batteries, calibration need not be repeated.

16.4.1 DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR.

By pressing the FLOWRATE key while the display is in Standby, the display page appears showing the current calibration factor used. If no calibration has ever been performed, or the factory setting has been restored after previous calibrations, the following display page will appear. The word "Fact" abbreviating for "factory" shows that the factory calibration factor is being used.

If on the other hand, calibrations have been made by the user, the display page will appear showing the currently used calibration factor (in our example 0.998). The word "User" indicates a calibration factor set by the user is being used.

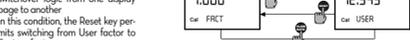


The flow chart alongside shows the switchover logic from one display page to another. In this condition, the Reset key permits switching from User Factor to Factory factor.

To confirm the choice of calibration to Factory factor, quickly press FLOWRATE while "User" or "Fact" is displayed. After the restart cycle, the METER uses the calibration factor that has just been confirmed



At the end of the process, a display page is first of all shown with the reset partial and the reset total.



When the Factory Factor is confirmed, the old User factor is deleted from the memory



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16.4.2 IN FIELD CALIBRATION

This procedure calls for the fluid to be dispensed into a graduated sample container in real operating conditions (Flow rate, viscosity, etc.) requiring maximum precision.

For correct METER calibration, it's most important to:

- 1 When the Factory Factor is confirmed, the old User factor is deleted from the memory
2 Use a precise Sample Container with a capacity of not less than 5 litres, featuring an accurate graduated indicator.
3 Ensure calibration dispensing is done at a constant flow rate equivalent to that of normal use, until the container is full.
4 Do not reduce the flow rate to reach the graduated area of the container during the final dispensing stage (the correct method during the final stages of sample container filling consists in making short top-ups at normal operation flow rate).
5 After dispensing, wait a few minutes to make sure any air bubbles are eliminated from the sample container; only read the Read value at the end of this stage, during which the level in the container could drop. Carefully follow the procedure indicated below.

16.4.2.1 IN-FIELD CALIBRATION PROCEDURE

NONE METER in Standby

LONG FLOWRATE key keying
The METER enters calibration mode, shows "CAL" and displays the calibration factor in use instead of partial. The words "Fact" and "USER" indicate which of the two factors (factory or user) is currently being used. Important: The factor that which the instrument also uses for field calibration measurement operations.

LONG RESET key keying
The METER shows "CAL" and the partial at zero. The METER is ready to perform in-field calibration.

DISPENSING INTO SAMPLE CONTAINER
Without pressing any key, start dispensing into the sample container.

Dispensing can be interrupted and started again at will. Current dispensing until the level of the fluid in the sample container has reached the graduated area. There is no need to reach a preset quantity.

Indicated value: Real value

SHORT RESET key keying
The METER shows "CAL" and the partial at zero. The METER is ready to perform in-field calibration.

SHORT LONG FLOWRATE key keying
The indicated value changes in the direction indicated by the arrow and for every short FLOWRATE key keying, continuously if the FLOWRATE key is kept pressed. The speed increase rates by keeping the key pressed. If the desired value is exceeded, repeat the operations from point (6).

LONG RESET key keying
The METER is informed that the calibration procedure is finished. Before performing this operation, make sure the INDICATED value is the same as the REAL value.

At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the reset cycle is repeated to finally achieve standby condition.

NO OPERATION
The METER shows the new USER K FACTOR. This calculation could require a few seconds, depending on the correction to be made.

ATTENTION: If the operation is performed after action (5) without changing the indicated value, the USER K FACTOR would be the same as the FACTORY K FACTOR. This is significant.

NO OPERATION
All the data of the calculation, the new USER K FACTOR is shown for a few seconds, after which the reset cycle is repeated to finally achieve standby condition.

NO OPERATION
From now on, the indicated factor will become the calibration factor used by the METER and will continue to remain such even after a battery change.

NO OPERATION
The METER shows the new work calibration factor and is ready to begin dispensing, using the USER K FACTOR that has just been changed.

16.4.3 DIRECT MODIFICATION OF K FACTOR

If normal Meter operation shows a mean percentage error, this can be corrected by applying the currently used calibration factor a correction of the same percentage. In this case, the percentage correction of the USER K FACTOR must be calculated by the user in the following way: New Cal. Factor = Old Cal. Factor \* (100 - %err / 100)

EXAMPLE:
Error percentage found: %6 - 0.9 %
CURRENT calibration factor: 1000
New USER K FACTOR: 1000 \* (100 - (-0.9)/100) = 1000 \* (100 + 0.9/100) = 1009

If the Meter indicates less than the real dispensed value (negative error) the new calibration factor must be higher than the old one as shown in the example. The opposite applies if the Meter shows more than the real dispensed value (positive error).

NO OPERATION
The METER shows the new USER K FACTOR. This calculation could require a few seconds, depending on the correction to be made.

ATTENTION: If the operation is performed after action (5) without changing the indicated value, the USER K FACTOR would be the same as the FACTORY K FACTOR. This is significant.

NO OPERATION
All the data of the calculation, the new USER K FACTOR is shown for a few seconds, after which the reset cycle is repeated to finally achieve standby condition.

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From now on, the indicated factor will become the calibration factor used by the METER and will continue to remain such even after a battery change.

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The METER shows the new work calibration factor and is ready to begin dispensing, using the USER K FACTOR that has just been changed.

17 METER CONFIGURATION

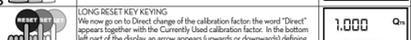
The METER features a menu with which the user can select the main measurement unit, Quarts (Qts), Pints (Pts), Litres (L), Gallons (Gal). The combination of the unit of measurement of the Partial register and that of the Totals is predefined according to the following table:

Table with 3 columns: Combination no., Unit of Measurement, Partial Register, Unit of Measurement, Totals Register. Rows: 1. Litres (L), Gallons (Gal); 2. Gallons (Gal), Gallons (Gal); 3. Quarts (Qts), Gallons (Gal); 4. Pints (Pts), Gallons (Gal)

To choose between the 4 available combinations:

Wait for the METER to go to Standby then press the FLOWRATE and RESET keys together. Keep these pressed until the word "UNIT" appears on the screen together with the unit of measurement set at that time (in this example Litres / Litres).

Every short press of the RESET key, the various combinations of the units of measurements are scrolled as shown below:



By pressing the FLOWRATE key at length, the new settings will be stored. The METER will pass through the start cycle and will then be ready to dispense in the set units.

The Reset Total and Total registers will be automatically changed to the new unit of measurement. NO new calibration is required after changing the Unit of Measurement.

18 MAINTENANCE

BATTERY REPLACEMENT WARNING
Remove the cover (1) Loosen the screw (2) Remove the cover (3) right side Change the batteries Assemble everything back on the seal around the cover housing and take care to place the cover correctly.

METER features two low-battery alarm levels:

When the battery charge falls below the first level on the LCD, the fixed battery symbol appears. In this condition, METER continues to operate correctly, but the fixed icon warns the user that it is ADVISABLE to change the batteries.

If METER operation continues without changing the batteries, the second battery alarm level will be reached which will prevent operation. In this condition the battery icon starts to flash and is the only one to remain visible on the LCD.

To change the batteries, proceed as follows:

Un screw the nut (1) Loosen the screw (2) Remove the cover (3) right side Change the batteries Assemble everything back on the seal around the cover housing and take care to place the cover correctly.

DO NOT OVERTIGHTEN THE SCREW

