

ENGLISH (Translated from Italian)

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1 DECLARATION OF CONFORMITY
The undersigned: PIUSI S.p.A. Via Pacinotti 16/A z.l.Rangano 46029 Suzzara - (MN) - Italy

HEREBY STATES under its own responsibility, that the equipment described below: Description: METER Model: NEXT - NEXT/2 Serial number refer to Lot Number shown on CE plate used to product Year of manufacture: refer to the year of production shown on the CE plate affixed to the product in conformity with the legal provisions indicated in the directives: Electromagnetic Compatibility Directive 2014/53/EU The documentation is at the disposal of the competent authority following motivated request at Piusi S.p.A. or following request sent to the email address: doc.tec@piusi.com. The person authorized to compile the technical file and draw up the declaration is Otto Varini as legal representative.

2 GENERAL WARNINGS
Important precautions
Symbols used in the manual

To ensure operator safety and to protect the pump from potential damage, workers must be fully acquainted with this instruction manual before performing any operation. 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. his 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. This manual belongs to Piusi S.p.A., which is the sole proprietor of all rights indicated by applicable laws, including, by way of example, laws on copyrights. All the rights deriving from such laws are reserved to Piusi S.p.A.: the reproduction, including partial, of this manual, its publication, change, transcription and notification to the public, translation, including using remote communication media, placing at disposal of the public, distribution, marketing in any form, translation and/or processing, loan and any other activity reserved by the law to Piusi S.p.A..

3 SAFETY INSTRUCTIONS
3.1 SAFETY WARNINGS

Main - preliminary checks before installation
Maintenance control
FIRE AND EXPLOSION
When flammable fluids are present in the work area such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion: Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not leave the work area while equipment is energized 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 over bend hoses or use hoses to pull equipment. Keep children and animals away from work area. Comply with all applicable safety regulations. Read MSDS's 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: always wear protective gloves during dispensing.

3.2 FIRST AID RULES
NOTE
SMOKING PROHIBITED

Please refer to the safety data sheet for the product. When operating the dispensing system and in particular during refueling, do not smoke and do not use open flame.

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3.3 GENERAL SAFETY RULES

Essential protective equipment that is - suited to the operations that need to be performed; - resistant to cleaning products. Wear the following personal protective equipment during handling and installation: Safety shoes. Close-fitting clothing. Protective gloves. Safety goggles.

3.4 PACKAGING
FOREWORD
1 - contents of the package
2 - weight of the contents
3 - description of the product

NEXT COMES PACKED IN A CARDBOARD BOX WITH A LABEL INDICATING THE FOLLOWING DATA:
Piusi logo and technical specifications.

3.5 PACKAGE CONTENTS/PRE-INSPECTION
FOREWORD
NOTE
WARNING

To open the packaging, use a pair of scissors or a cutter, being careful not to damage the dispensing system or its components. In the event that one or more of the components described below are missing from inside the package, please contact Piusi S.p.A. technical support. Check that the data on the plate correspond to the desired specifications. In the event of any anomaly, contact the supplier immediately, indicating the nature of the defects. Do not use equipment which you suspect might not be safe.

4 BECOMING ACQUAINTED WITH NEXT
ATTENTION
FOREWORD
MEASURE-MENT CHAMBER

The manufacturer accepts no liability for malfunctions or damages to people or properties arising from a use of the product other than that specified in the user manual. The METER is an electronic digital meter featuring an oval gear measurement system, designed for easy and precise measuring of oils and other liquids compatible with the component materials. The fluid, by flowing through the appliance, rotates the gears which, during their rotation, transfer "volume units" of fluid. The exact measurement of the dispensed fluid is done by counting the number of rotations made by the gears and consequently the number of transferred "volume units". The magnetic coupling between the magnets installed in the gears and a magnetic switch outside the measurement chamber, ensures measurement chamber sealing and ensures transmission of the pulses generated by gear rotation to the electronic board microprocessor. In the dispensing mode (Normal Mode) the partial and total amounts are shown in two different registers of the LCD. The METER features a non-volatile memory for storing the dispensing data, even in the event of a complete power break for long periods. The measurement electronics and the LCD display are fitted in the top part of the meter, isolated from the fluid-bath measurement chamber and sealed from the outside by means of a cover. The measurement chamber is located in the lower part of the instrument. It features a threaded inlet and outlet. The cover on the bottom part provides access to the measurement mechanism for any cleaning operations. Inside the measurement chamber are the oval gears which, on turning, generate electrical pulses which are processed by the microprocessor-controlled electronic board. By applying a suitable calibration factor (meaning a "weight" associated with each pulse), the microprocessor translates the pulses generated by the "fluid volume" rotation expressed in the set units of measurement, displayed on the partial and total registers of the LCD. All the meters are factory set with a calibration factor called FACTORY K FACTOR equal to 1.000. For best meter performance - adapting this to the intrinsic characteristics of the fluid to be measured - the instrument can be "calibrated". It is possible to return to factory calibration at any time. The METER is powered by two standard type 1.5 V batteries (size 1N). The battery housing is closed by a threaded water-tight cap that can be easily removed for quick battery change. Oil Motor oil type 10 W 30 Diesel

BATTERY HOUSING
COMPATIBLE LIQUIDS
Main components
1 LCD display 4 Cal Button
2 Reset Button 5 Battery housing
3 Measurement chamber



4.1 DISPLAY LCD
FOREWORD

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 01 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 01 to 999999), that can indicate two types of Totals: 4.1. General Total that cannot be reset (TOTAL) 4.2. Resettable total (Reset TOTAL)
5 Indication of total multiplication factor (x10 / x100)

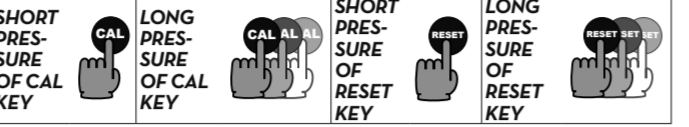
Indication of type of total, (TOTAL / Reset TOTAL).
Indication of unit of measurement of Totals: L-Litres Gal-Gallons
Indication of Flow Rate mode
Indication of unit of measurement of Partial: Qts-Quarts Pts-Pints Gal-Gallons



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4.2 USERS BUTTONS
FOREWORD
MAIN FUNCTIONS AND SECONDARY FUNCTIONS LEGEND

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



5 OPERATING MODES
OPERATING MODES

The user can choose between two different operating modes: The meter features a non-volatile memory for storing the dispensing data, even in the event of a complete power break for long periods. The measurement electronics and the LCD display are fitted in the top part of the Meter which remains isolated from the fluid-bath measurement chamber and sealed from the outside by means of a cover.

1 - Normal Mode Mode with display of Partial and Total dispensed quantities
2 - Flow rate Mode Mode with display of Flow Rate, as well as Partial dispensed quantity.

6 INSTALLATION
FOREWORD

The METER features a 1/2 inch inlet and outlet, threaded and perpendicular, and has been designed to be installed in any position, both as fixed in-line installation and as moving installation on a dispensing nozzle. Make sure the threaded connections do not interfere with the inside of the measurement chamber causing the gears to seize. METER does not have a fixed direction of flow and both inlets can be used as inlet and outlet. Make sure a filter with adequate filtering capacity is always fitted either at meter inlet or at the entrance of the line on which the meter is fitted. If solid particles enter the measurement chamber, the gears could seize. For installations on system, position Meter so that the battery housing can be easily reached.

7 DAILY USE
FOREWORD

The only operations that need to be done for daily use are partial and/or reset total registers. The other shows the partial and general Switchover from resettable total to general total display is automatic and tied to phases and times that are in factory set and cannot be changed. Below are the two typical normal operation displays. One display page shows the partial and reset total registers. The other shows the partial and general Switchover from resettable total to general total display is automatic and tied to phases and times that are in factory set and cannot be changed.



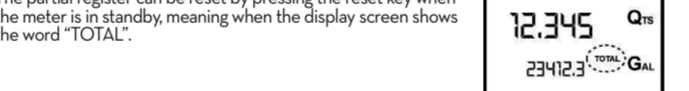
6 digits are available for Totals, plus two icons x10 / x100. The increment sequence is the following: 0.0 -> 99999.9 -> 999999 -> 10000 x10 -> 999999 x10 -> 10000 x100 -> 99999 x100

7.1 DISPENSING IN NORMAL MODE
FOREWORD
WARNING

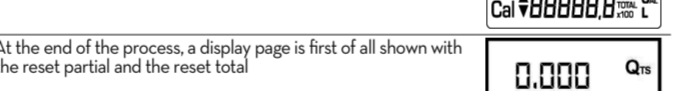
Normal mode is the standard dispensing. While the count is made, the partial and resettable total are displayed at the same time (reset total). Should one of the keys be accidentally pressed during dispensing, this will have no effect. A few seconds after dispensing has ended, on the lower register, 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.



7.1.1 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.

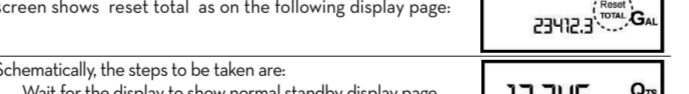


At the end of the process, a display page is first of all shown with the reset partial and the reset total

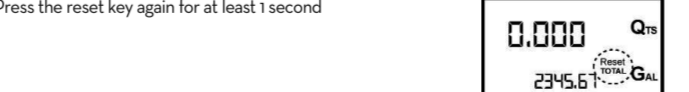


and, after a few moments, the reset total is replaced by the non resettable total.

7.1.2 RESET THE RESET TOTAL
The reset total resetting operation can only be performed after resetting the partial register. The reset total can in fact 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

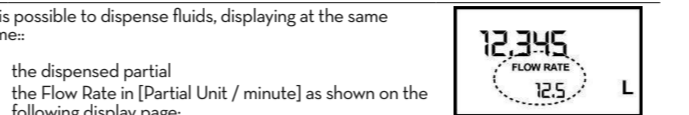


The display screen again shows all the segments of the display followed by all the switched-off segments and finally shows the display page where the reset Reset Total is shown.



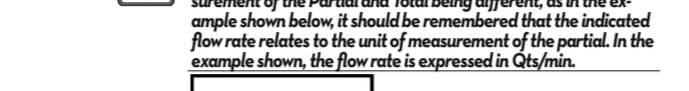
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7.2 DISPENSING WITH FLOW RATE MODE DISPLAY
It is possible to dispense fluids, displaying at the same time:



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 CAL 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 value. 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.

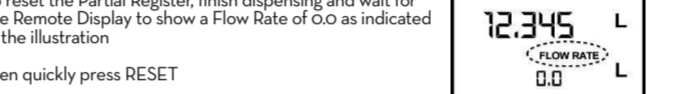


The word "Gal" remaining alongside the flow rate refers to the register of the Totals (Reset or NON Reset) which are again displayed when exiting from the flow rate reading mode.

To return to "Normal" mode, press the CAL key again. If one of the two keys RESET or CAL is accidentally pressed during the count, this will have no effect.

IMPORTANT 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 CAL.

7.2.1 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



then quickly press RESET

8 CALIBRATION
When operating close to extreme use or flow rate conditions (close to minimum or maximum acceptable values), an on-the-spot calibration may be required to suit the real conditions in which the Meter is required to operate.

8.1 CONDITIONS IN WHICH THE CALIBRATION FACTOR OR "K FACTOR" FACTORY K FACTOR

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 1.000. This calibration factor ensures utmost precision in the following operating conditions: Fluid: motor oil type 10W/40 Temperature: 20°C Flow rate: 60 litres/min Even after any changes have been made by the user, the factory k factor can be restored by means of a simple procedure. Customized calibration factor, meaning modified by calibration.

8.2 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

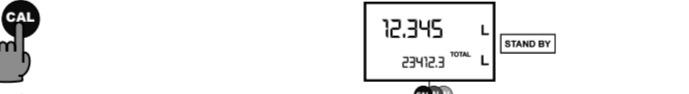
Two procedures are available for changing the Calibration Factor: In-Field Calibration, performed by means of a dispensing operation; 2 Direct Calibration, performed by directly changing the calibration factor

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

ATTENTION 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.

8.2.1 DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR

By pressing the CAL key while the appliance is in Standby, the display page appears showing the current calibration factor used. For calibration by the user, the factory setting has been restored after previous calibrations, the following display page will appear. The word "Fact" abbreviation for "Factor" 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 current user 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 factor, quickly press CAL while "User" or "Fact" are displayed. After the restart cycle, the Meter uses the calibration factor that has just been confirmed



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

8.2.2 IN FIELD CALIBRATION
FOREWORD

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. ATTENTION For correct Meter calibration, it is 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 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 Real value at the end of this stage, during which the level in the container could drop.
6 Carefully follow the procedure indicated below.

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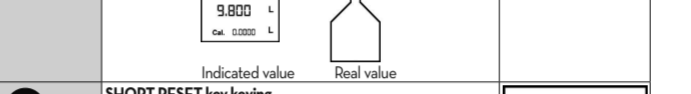
8.2.2.1 IN-FIELD CALIBRATION PROCEDURE

Table with 3 columns: ACTION, NONE, METER in Standby; DISPLAY, 12.345 L, 13956 mm³ L. Includes icons for CAL and AL keys.

LONG CAL 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: This factor is 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: Dispensing can be interrupted and started again at will. Continue 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.



SHORT RESET key keying: The Meter is informed that the calibration dispensing operation is finished. Make sure dispensing is correctly finished before performing this operation. To calibrate the Meter, the value indicated by the partial totaliser (example 0.800) must be forced to the real value marked on the graduated sample container in the bottom left part of the display; an arrow appears (upwards and downwards), that shows the direction (increase or decrease) of the value change displayed when the following operations 6 & 7 are performed.

SHORT RESET key keying: The arrow changes direction. The operation can be repeated to alternate the direction of the arrow.

SHORT/LONG CAL key keying: The indicated value changes in the direction indicated by the arrow: - one unit for every short CAL key keying - continuously if the CAL key is kept pressed. The speed increase rises 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.

NO OPERATION: At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the rest cycle is repeated to finally achieve standby condition. IMPORTANT: 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 calculated.

ATTENTION: The Meter will display the same Reset Total, the same Total and the same Partial indicated before the batteries were changed. After changing the batteries and, subsequently, every time there is a power break, the METER will start again and use the same calibration factor used when the break occurred. The meter does not therefore need recalibrating again.

CLEANING: The METER measurement chamber can be cleaned without removing the instrument from the line or from the dispensing nozzle on which it is fitted. Always make sure the liquid has been drained from the meter before cleaning. Do not discard the old batteries in the environment. Refer to local disposal regulations.

ATTENTION: Only one of the two gears features magnets. This must be fitted in the position marked "MAGNET" (see drawing). Once the gear has been fitted, the magnets must be visible before closing the cover.

11 MALFUNCTIONS
Problem LCD: indications dull
Possible cause Battery low
Remedial Action See paragraph H-Maintenance-replace battery

Not enough measurement precision
Wrong K FACTOR
With reference to paragraph F, check the calibration factor
Reenter at flow rate nominal range

Reduced or zero flow rate
Gears blocked
Clean the measurement chamber

The meter does not count, but the flow rate is correct
Incorrect installation of gears
Repeat the reassembly procedure
Possible electronic board problems
Contact your dealer

12 DISPOSAL
Foreword
If the system needs to be disposed, the parts which make it up must be delivered to companies that specialize in the recycling and disposal of industrial waste.

Disposing of packing materials
Metal Parts Disposal
Metal parts, whether paint-finished or in stainless steel, can be assigned to scrap metal collection.

Disposal of electric and electronic components
Information regarding the environment for clients residing within the European Union

European Directive 2012/19/EU requires that all equipment marked with this symbol on the product and/or packaging not be disposed together with non-differentiated urban waste. The symbol indicates that this product must not be disposed of together with normal household waste; the responsibility of the owner to dispose of these products as well as other electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local governing authorities.

Disposing of BAE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.

Miscellaneous parts disposal
Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specializing in the disposal of industrial waste.

Disposing of BAE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.

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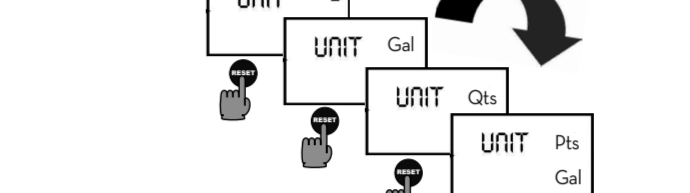
9 METER CONFIGURATION

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 include Litres (L), Gallons (Gal), Quarts (Qts), Pints (Pts).

To choose between the 4 available combinations: Wait for the METER to go to Standby Then press the CAL and RESET keys together. Keep these pressed until the word "UNIT" appears on the screen to gather 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 CAL 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.

ATTENTION: 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.

10 MAINTENANCE
BATTERY REPLACEMENT WARNING
Use 2x1.5 V alkaline batteries size AAA

Meter should be installed in a position allowing the batteries to be replaced without removing it from the system

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 start cycle starts to flash and the only one to remain visible on the LCD.

To change the batteries, with reference to the spare parts list, proceed as follows: 1 Unscrew the battery cap. 2 Remove the old batteries. 3 Place the new batteries in the same position as the old ones, making sure the positive pole is positioned as indicated on the cover. 4 Re-tighten the battery cap, making sure the seal are correctly positioned. 5 The METER will switch on automatically and normal operation can be resumed.

The METER will display the same Reset Total, the same Total and the same Partial indicated before the batteries were changed. After changing the batteries and, subsequently, every time there is a power break, the METER will start again and use the same calibration factor used when the break occurred. The meter does not therefore need recalibrating again.

CLEANING: The METER measurement chamber can be cleaned without removing the instrument from the line or from the dispensing nozzle on which it is fitted. Always make sure the liquid has been drained from the meter before cleaning. Do not discard the old batteries in the environment. Refer to local disposal regulations.

ATTENTION: Only one of the two gears features magnets. This must be fitted in the position marked "MAGNET" (see drawing). Once the gear has been fitted, the magnets must be visible before closing the cover.

To clean the chamber, proceed as follows: 1 Loosen the four cover retention screws. 2 Remove the cover and the seal. 3 Clean where necessary. For this operation, use a brush or pointed object such as a small screwdriver. 4 Be careful not to damage the body or the gears.

To reassemble the instrument, perform the operations in the opposite sequence.

ATTENTION: Only one of the two gears features magnets. This must be fitted in the position marked "MAGNET" (see drawing). Once the gear has been fitted, the magnets must be visible before closing the cover.

11 MALFUNCTIONS
Problem LCD: indications dull
Possible cause Battery low
Remedial Action See paragraph H-Maintenance-replace battery

Not enough measurement precision
Wrong K FACTOR
With reference to paragraph F, check the calibration factor
Reenter at flow rate nominal range

Reduced or zero flow rate
Gears blocked
Clean the measurement chamber

The meter does not count, but the flow rate is correct
Incorrect installation of gears
Repeat the reassembly procedure
Possible electronic board problems
Contact your dealer

12 DISPOSAL
Foreword
If the system needs to be disposed, the parts which make it up must be delivered to companies that specialize in the recycling and disposal of industrial waste.

Disposing of packing materials
Metal Parts Disposal
Metal parts, whether paint-finished or in stainless steel, can be assigned to scrap metal collection.

Disposal of electric and electronic components
Information regarding the environment for clients residing within the European Union

European Directive 2012/19/EU requires that all equipment marked with this symbol on the product and/or packaging not be disposed together with non-differentiated urban waste. The symbol indicates that this product must not be disposed of together with normal household waste; the responsibility of the owner to dispose of these products as well as other electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local governing authorities.

Disposing of BAE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.

Miscellaneous parts disposal
Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specializing in the disposal of industrial waste.

Disposing of BAE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately. Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health. In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.



MADE IN ITALY
Use, maintenance and calibration manual
Manuale di uso, manutenzione e calibrazione

BULLETIN MOT13 C ITEM_00

PIUSI S.p.A. - Suzzara (MN) - Italy

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DICHIARAZIONE DI CONFORMITÀ
La sottoscritta PIUSI S.p.A. Via Pacinotti 16/A - 21. Rangavio 46029 Suzzara - (MN) - Italia

DICHIARA sotto la propria responsabilità, che l'apparecchiatura descritta in appresso:
Descrizione: Contaltri
Modello: NEXT - NEXT/2
Ventricola riferita al Numero riportato sulla targh CE apposta sul prodotto

2 AVVERTENZE GENERALI
Per salvaguardare l'incolumità degli operatori, per evitare possibili danneggiamenti e prima di compiere qualsiasi operazione, è indispensabile avere preso conoscenza di tutto il manuale istruzioni.

3 ISTRUZIONI DI SICUREZZA
ATTENZIONE
Evitare assolutamente il contatto tra l'alimentazione elettrica e il liquido da pompare.

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Evitare assolutamente il contatto tra l'alimentazione elettrica e il liquido da pompare.

3.2 NORME DI SICUREZZA
Per informazioni specifiche, fare riferimento alle schede di sicurezza del prodotto.

3.3 NORME GENERALI DI SICUREZZA
Caratteristiche essenziali dell'equipaggiamento di protezione
Dispositivi di protezione individuale da indossare

3.4 IMBALLO
Premessa
1 - contenuto della confezione
2 - peso del contenuto
3 - descrizione del prodotto

3.5 CONTENUTO DELL'IMBALLO
Premessa
1 - contenuto della confezione
2 - peso del contenuto
3 - descrizione del prodotto

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Premessa
1 - contenuto della confezione
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3.6 CONOSCERE NEXT
ATTENZIONE
Il fabbricante declina ogni responsabilità per malfunzionamenti di natura o alla causa derivanti da un uso del prodotto diverso da quello indicato nel manuale.

3.7 USI SPECIALI
Premessa
Le uniche operazioni che vengono compiate nell'utilizzo giornaliero sono gli azzeramenti dei registri del parziale e/o del totale resettable.

3.8 MALFUNZIONAMENTI
Premessa
Le uniche operazioni che vengono compiate nell'utilizzo giornaliero sono gli azzeramenti dei registri del parziale e/o del totale resettable.

3.9 SOSTITUZIONE BATTERIE
Premessa
Le uniche operazioni che vengono compiate nell'utilizzo giornaliero sono gli azzeramenti dei registri del parziale e/o del totale resettable.

3.10 MANUTENZIONE
Premessa
Le uniche operazioni che vengono compiate nell'utilizzo giornaliero sono gli azzeramenti dei registri del parziale e/o del totale resettable.

3.11 VISTE ESPLOSE ED INGOMBRI
Premessa
Le uniche operazioni che vengono compiate nell'utilizzo giornaliero sono gli azzeramenti dei registri del parziale e/o del totale resettable.

4.2 PULSANTI UTENTE - LEGENDA
PREMESSA
Il meter è dotato di due pulsanti (RESET e CAL) che svolgono, singolarmente, due funzioni principali e, in combinazione, altre funzioni secondarie.

5 MODALITÀ DI UTILIZZO
MODALITÀ DI UTILIZZO
L'utente può scegliere tra due modalità diverse di utilizzo: il Contaltri è provvisto di una memoria non volatile che permette di mantenere i dati archiviati delle erogazioni eseguite anche in caso di completa assenza di alimentazione per lunghi periodi.

6 INSTALLAZIONE
Premessa
METER ha ingressi e uscita da 1/2 inch, filettati e in asse, ed è studiato per essere installato in qualsiasi posizione sia come installazione fissa su una linea, sia come installazione mobile su una pistola di erogazione.

7 USO GIORNALIERO
Premessa
Le uniche operazioni che vengono compiate nell'utilizzo giornaliero sono gli azzeramenti dei registri del parziale e/o del totale resettable.

7.1 EROGAZIONE IN MODALITÀ NORMALE (NORMAL MODE)
Premessa
Normal mode è l'erogazione standard. Durante il conteggio, vengono visualizzati contemporaneamente il "parziale erogato" ed il "totale azzerabile" (reset total).

7.1.1 AZZERAMENTO DEL PARZIALE
Il Registro del Parziale può essere azzerato premendo il tasto RESET quando il contaltri è in Stand-by, ovvero quando il display visualizza la scritta "TOTAL".

7.1.2 AZZERAMENTO DEL RESET TOTAL (TOTALE AZZERABILE)
L'operazione di azzeramento del Reset Total è effettuabile solo successivamente ad una operazione di azzeramento del registro del Parziale. Infatti il Reset Total può essere azzerato premendo a lungo il tasto RESET mentre il display visualizza la scritta RESET TOTAL come nella schermata seguente:

7.2 EROGAZIONE CON VISUALIZZAZIONE PORTATA ISTANTANEA (FLOW RATE MODE)
Premessa
E' possibile effettuare erogazioni visualizzando contemporaneamente:
1 il parziale erogato
2 la Portata Istantanea (Flow Rate) in [Unità del Parziale / minuto] come indicato nella schermata A.FIANCO

7.2.1 AZZERAMENTO DEL PARZIALE (FLOW RATE)
Per azzerare il Registro del Parziale occorre terminare l'erogazione, attendere che il Meter indichi un Flow Rate di 0.0 come indicato in figura.

7.2 EROGAZIONE CON VISUALIZZAZIONE PORTATA ISTANTANEA (FLOW RATE MODE)
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8 CALIBRAZIONE
8.1 DEFINIZIONI
Fattore moltiplicativo che il sistema applica agli impulsi elettrici ricevuti, per trasformarli in unità di fluido misurato.

8.2 MODALITÀ DI CALIBRAZIONE
Perché calibrare?
1 Per visualizzare il fattore di calibrazione attualmente utilizzato
2 Per tornare al fattore di calibrazione di fabbrica (factory k factor) dopo una precedente calibrazione con user k factor

8.2.1 VISUALIZZAZIONE "K FACTOR" ATTUALE RIPRISTINO DEL "FACTORY K FACTOR"
Premessa
Premendo a lungo il tasto CAL, mentre il Contaltri è in stand-by, si giunge alla schermata che mostra il fattore di calibrazione attualmente utilizzato. Se lo si sta utilizzando con il "factory k factor", verrà visualizzato lo schema rappresentativo dello schema, con la scritta "Fact".

8.2.2 CALIBRAZIONE IN CAMPO
Premessa
Questa procedura prevede l'erogazione del fluido in un recipiente campione graduato nelle reali condizioni operative (portata, viscosità, ecc.) alle quali è richiesta la massima precisione.

8.2.3 MODIFICA DIRETTA DEL K FACTOR
Se il normale utilizzo di NEXT mostra un errore percentuale medio, questo può essere corretto applicando al fattore di calibrazione attualmente utilizzato, una correzione di pari percentuale. In questo caso la correzione percentuale dello USER K FACTOR, deve essere calcolata dall'operatore nel seguente modo:

8.2.3.1 PROCEDURA PER EFFETTUARE LA CALIBRAZIONE IN CAMPO
L'erogazione può essere interrotta e ripresa a piacere. Continuare l'erogazione fino a quando il livello del fluido nel recipiente campione ha raggiunto la zona graduata. Non è necessario raggiungere una quantità prefissata.

8.2.3.2 MODIFICA DIRETTA DEL K FACTOR
Se si continua ad utilizzare il Meter senza sostituire le batterie, si giungerà al secondo livello di allarme batteria che inibisce il funzionamento. In questa condizione la batteria diventa lampeggiante e rimane l'unica visibile sull'LCD.

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9 CONFIGURAZIONE DEI CONTALTRI
Alcuni modelli sono provvisti di un menù con il quale l'utente può selezionare l'unità di misura principale, quarti (qts), pinte (pts), litri (l), galloni (gal). La combinazione tra unità di misura del registro del parziale e di quello dei totali è predefinita secondo la seguente tabella:

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12 SMALTIMENTO
Premessa
In caso di demolizione del sistema, le parti di cui è composto devono essere affidate a ditte specializzate nello smaltimento e riciclaggio dei rifiuti industriali e in particolare:

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Premessa
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IT Sistema di misura
Risoluzione (nominale) 0,005 (Litri/impulso) 0,010 (Litri/minuto)

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