

## ENGLISH (Translated from Italian)

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## 1 DECLARATION OF CONFORMITY

The undersigned: PIUSI S.p.A.  
Via Pacinotti 16/A z.l.Rangavino  
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 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 2014/53/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 authorised to compile the technical file and draw up the declaration is Otto Varini as legal representative.

Suzzara, 01/01/2012  
Otto Varini  
legal representative

## 2 GENERAL WARNINGS

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, transmission, 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

**ATTENTION**  
**You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.**  
Before any checks or maintenance work are carried out, disconnect the power source.  
**Use equipment only in well ventilated area.**  
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 fumes are present.  
Ground all equipment in the work area.  
Stop operation immediately if static sparking occurs or if you feel a shock. Do not use equipment until you identify and correct the problem.  
Keep a working fire extinguisher in the work area.  
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

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.

### SMOKING PROHIBITED

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## 3.3 GENERAL SAFETY RULES

Wear 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.  
Instruction manual

## 3.4 PACKAGING

**FOREWORD**  
NEXT COMES PACKED IN A CARDBOARD BOX WITH A LABEL INDICATING THE FOLLOWING DATA:  
1- contents of the package  
2- weight of the contents  
3- description of the product

## 3.5 PACKAGE CONTENTS/PRE-INSPECTION

**FOREWORD**  
To open the packaging, use a pair of scissors or a cutter, being careful not to damage the dispensing system or its components.  
**NOTE**  
**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.**  
**WARNING**  
**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**  
**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.**  
**FOREWORD**  
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 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 (AA). 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

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 (AA). 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  
2 Reset Button  
3 Measurement chamber

|   |                                                                                                                                                                                                   |    |                                                                                |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------|
| 4 | Cal Button                                                                                                                                                                                        | 5  | Battery housing                                                                |
| 1 | Partial register (5 figures with moving comma FROM 01 to 99999) indicating the volume dispensed since the reset button was last pressed                                                           | 6  | Indication of type of total, (TOTAL / RESET TOTAL).                            |
| 2 | Indication of battery charge                                                                                                                                                                      | 7  | Indication of unit of measurement of Totals.<br>L-Litres Gal-Gallons           |
| 3 | Indication of calibration mode                                                                                                                                                                    | 8  | Indication of Flow Rate mode                                                   |
| 4 | Totals register (6 figures with moving comma FROM 01 to 999999), that can indicate two types of Totals:<br>4.1. General Total that cannot be reset (TOTAL)<br>4.2. Resettable total (Reset TOTAL) | 9  | Indication of unit of measurement of Partial: Qts-Quarts Pts-Pints Gal-Gallons |
| 5 | Indication of total multiplication factor (x10 / x100)                                                                                                                                            | 10 | Indication of Flow Rate mode                                                   |

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## 4.2 USERS BUTTONS

**FOREWORD**  
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.  
**LEGEND**

**SHORT PRES-SURE OF CAL KEY**  
**LONG PRES-SURE OF CAL KEY**  
**SHORT PRES-SURE OF RESET KEY**  
**LONG PRES-SURE OF RESET KEY**

## 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  
2- Flow rate Mode

## 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.  
**ATTENTION**  
**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 resettable total register resetting. The user should use 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 the two typical normal operation displays. One display shows the partial and reset total registers. The other shows the partial and general Total register. The 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.

**NOTE**  
**6 digits are available for Totals, plus two icons x10 / x100. The increment sequence is the following:**  
**0.0 - 99999.9 - 999999 - 100000 x10 - 999999 x10 - 100000 x100 - 999999 x100**

## 7.1 DISPENSING IN NORMAL MODE

**FOREWORD**  
Normal mode is the standard dispensing. While the count is made, the partial and resettable total are displayed at the same time (reset total).  
**WARNING**  
**Should one of the keys be accidentally pressed during dispensing, this will have no effect.**  
**STAND BY**  
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 RESETTING 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 reset)  
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

**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 0.2 seconds. Consequently, the display could be relatively unstable at lower flow rates. The higher the flow rate, the more stable the displayed value.  
**IMPORTANT**  
**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.  
**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.**

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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 0.2 seconds. Consequently, the display could be relatively unstable at lower flow rates. The higher the flow rate, the more stable the displayed value.  
**IMPORTANT**  
**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.  
**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.**

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 DEFINITIONS

**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:** oil type 10 W40  
**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.  
**USER K FACTOR:** 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:  
1 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. If no calibration has been performed, or if the factory setting has been restored after previous calibrations, the following display page will appear.  
The word "Fact" abbreviation 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 user's 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**  
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:**

- When the Factory Factor is confirmed, the old User factor is deleted from the memory
- use a precise Sample Container with a capacity of not less than 5 litres, featuring an accurate graduated indicator.
- ensure calibration dispensing is done at a constant flow rate equivalent to that of normal use, until the container is full.
- 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).
- 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.
- Carefully follow the procedure indicated below.

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## 8.2.2.1 IN-FIELD CALIBRATION PROCEDURE

**ACTION**  
1 NONE  
Meter in Standby  
2 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 in use.  
Important: This factor is that which the instrument also uses for field calibration measurement operations.  
3 LONG RESET key keying  
The Meter shows "CAL" and the partial at zero. The Meter is ready to perform in-field calibration.  
4 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.  
5 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 totalar (example 9800) 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 and 7 are performed.  
6 SHORT RESET key keying  
The arrow changes direction. The operation can be repeated to alternate the direction of the arrow.  
7 NO OPERATION  
The Meter shows "CAL" and the zero partial total. The Meter is ready to perform in-field calibration by dispensing - see previous paragraph.  
8 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).  
9 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 CAL value.  
10 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.  
The Meter calculates the new USER K FACTOR: this calculation could require a few seconds, depending on the record to be stored.  
**ATTENTION:** If this operation is performed after action (6), without changing the indicated value, the USER K FACTOR would factor can be restored by means of a simple procedure.  
At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the restart 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**  
The Meter shows the new calibration factor and is ready to begin dispensing, using the USER K FACTOR that has just been calculated.

### 8.2.3 DIRECT MODIFICATION OF K FACTOR

If normal Meter operation shows a mean percentage error, this can be corrected by applying to 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 operator in the following way:  
**New Cal. Factor = Old Cal. Factor \* (100 - E% / 100)**  
EXAMPLE:  
Error percentage found: E% = 0.9 %  
CURRENT calibration factor: 1.000  
New USER K FACTOR: 1.000 \* [(100 - (- 0.9) / 100) = 1.000 \* [(100 + 0.9) / 100] = 1.009  
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).

**ACTION**  
1 NONE  
METER in Standby  
2 LONG CAL KEY KEYING  
Meter enters calibration mode, shows "CAL" and displays the calibration factor being used instead of the partial. The words "Fact" and "User" indicate which of the two factors (factory or user) is currently being used.  
3 LONG RESET KEY KEYING  
The Meter shows "CAL" and the zero partial total. Meter is ready to perform in-field calibration by dispensing - see previous paragraph.  
4 LONG RESET KEY KEYING  
The word "Direct" appears together with the Currently Used calibration factor. In the bottom left part of the display, an arrow appears (upwards or downwards) defining the direction (increase or decrease) of change of the displayed value when subsequent operations 5 and 6 are performed.  
5 SHORT RESET KEY KEYING  
Changes the direction of the arrow. The operation can be repeated to alternate the direction of the arrow.  
6 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 (5).  
7 LONG RESET KEY KEYING  
The Meter is informed that the calibration procedure is finished. Before performing this operation, make sure the INDICATED value is that required.  
8 NO OPERATION  
At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the restart 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**  
9 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.

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## 9 METER CONFIGURATION

The METER feature 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:

To choose between the 4 available combinations:  
1 Wait for the METER to go to Standby  
2 Then press the CAL and RESET keys together. Keep these pressed until the word "UNIT" appears on the screen to gether with the unit of measurement set at that time (in this example Litres / Litres )  
3 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.  
**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.**

**ATTENTION**  
**Meter should be installed in a position allowing the batteries to be replaced without removing it from the system.**  
**MAINTENANCE**  
Use 2x1.5 V alkaline batteries size AAAA  
**BATTERY REPLACEMENT WARNING**  
**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:  
1 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.  
2 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:  
1 Press RESET to update all the totals  
2 Unscrew the battery cap  
3 Remove the old batteries  
4 Place the new batteries in the same position as the old ones, making sure the positive pole is positioned as indicated on the cover  
5 Re-tighten the battery cap, making sure the seal are correctly positioned  
6 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 indication 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 calibrating 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.**  
Loosen the four cover retention screws  
Remove the cover and the seal  
Remove the oval gears  
Clean where necessary. For this operation, use a brush or pointed object such as a small screwdriver.  
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                                                | Possible cause                                                                                        | Remedial Action                                                                         |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| LCD: indications dull                                  | Battery low                                                                                           | See paragraph H-Maintenance-replace battery                                             |
| Not enough measurement precision                       | Wrong K FACTOR                                                                                        | With reference to paragraph F, check the calibration factor                             |
| Reduced or zero flow rate                              | The meter works out of flow rate nominal range.                                                       | Reenter at flow rate nominal range                                                      |
| The meter does not count, but the flow rate is correct | Gears blocked<br>Incorrect installation of gears after cleaning<br>Possible electronic board problems | Clean the measurement chamber<br>Repeat the reassembly procedure<br>Contact your dealer |

**12 DISPOSAL**  
**Foreward**  
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.  
The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.  
Metal parts, whether paint-finished or in stainless steel, can be consigned to scrap metal collectors.  
These must be disposed of by companies that specialize in the disposal of electronic components, in accordance with the indications of directive 2012/19/EU (see text of directive below).  
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 RAEE 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.

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

# PIUSI NEXT/2 ELECTRONIC METER

Use, maintenance and calibration manual  
Manuale di uso, manutenzione e calibrazione  
BULLETIN M013 C ITEM: 00

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

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## ITALIANO (Lingua Originale)

## 12 SMALTIMENTO

|                 |                                |
|-----------------|--------------------------------|
| <b>Premessa</b> | In caso di dem<br>co. l'impres |
|-----------------|--------------------------------|

**Smaltimento dell'imballaggio**

**Smaltimento dei rifiuti metallici**

**Smaltimento dei componenti elettrici ed elettronici**

**Informazioni relative all'ambiente per i cittadini residenti nell'Unione europea**

essere affidate a ditte specializzate nello smaltimento e riciclaggio dei rifiuti industriali e, in particolare, dei rifiuti pericolosi.

L'imballaggio è costituito da cartone biodegradabile che può essere consegnato alle aziende per il normale recupero della cellulosa.

Le parti metalliche, sia quelle verniciate, sia quelle in acciaio inossidabile non normalmente recuperabili dalle aziende specializzate nel settore della metallurgia.

Devono obbligatoriamente essere smaltite da aziende specializzate nello smaltimento dei componenti elettronici, in conformità alle indicazioni della direttiva 2012/19/UE (vedi testo direttiva nel seguito).

La direttiva Europea 2012/19/UE richiede che le apparecchiature connessi a un'energia elettrica o a un gas, siano prodotti in quantità non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia i loro componenti elettronici ed elettroniche e, in base alle specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali.

Lo smaltimento di Rifiuti di Apparecchiature Elettroniche ed Elettriche (RAEE) come rifiuti domestici è severamente vietato. Questo tipo di rifiuti deve essere smaltito separatamente.

Le eventuali sostanze pericolose presenti nelle apparecchiature elettriche ed elettroniche e/o l'uso non corretto di tali apparecchiature possono avere possibili gravi conseguenze sull'ambiente e sulla salute umana.

In caso di smaltimento abusivo di tali rifiuti, possono essere applicate

**Smaltimento di ulter-**

| DATI TECNICI                      |                                       | TECHNICAL DATA        |                       |
|-----------------------------------|---------------------------------------|-----------------------|-----------------------|
| IT                                |                                       | NEXT                  | NEXT/2                |
| Sistema di misura                 |                                       | Ingranaggi ovali      |                       |
| Risoluzione (nominale)            |                                       | 0,005 (Litri/impulso) | 0,010 (Litri/impulso) |
| Portata (Campo)                   |                                       | 5 - 25 (Litri/minuto) | 6 - 60 (Litri/minuto) |
| Pressione di esercizio (Max)      |                                       | 70 (Bar)              |                       |
| Pressione di scoppio (Min)        |                                       | 170 (Bar)             |                       |
| Temperatura di stoccaggio (Campo) |                                       | -20 / +70 (°C)        |                       |
| Umidità di stoccaggio (Max)       |                                       | 95 (% RH)             |                       |
| Temperatura di esercizio (Max)    |                                       | 60 (°C)               |                       |
| Perdita di carico                 |                                       | <1 (Bar)              | <0,5 (Bar)            |
|                                   | (a 15 l/min con olio SAE10W40 a 20°C) |                       |                       |
| Velocità (Campo)                  |                                       | 5 - 2000 (RPM)        |                       |

Precisione (tra 5 e 25 l/min per NEXT  
e tra 6 e 60 l/min per NEXT/2)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p> <b>Alimentazione</b><br/> <b>Durata batteria</b><br/> <b>Peso</b> </p>                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p> <b>030 (%)</b><br/>                     A cristalli liquidi LCD Provvidi di:<br/>                     - Parziale a 5 cifre<br/>                     - Totale azzerabile a 6 cifre più x10 / x100<br/>                     - Totale NON azzerabile a 6 cifre più x10 / x100<br/>                     Batterie alcaline 2x1.5V size AAA<br/>                     8000 - 15000 h<br/>                     0.530 Kg (batterie incluse)      0.620 Kg (batterie incluse)                 </p> |                                                                                                                                                                                                                                                                                                                                                                            |
| <b>EN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>NEXT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>NEXT2</b>                                                                                                                                                                                                                                                                                                                                                               |
| <p> <b>Measurement system</b><br/> <b>Resolution (nominal)</b><br/> <b>Flow Rate (Range)</b><br/> <b>Operating pressure (Max)</b><br/> <b>Bursting pressure (Min)</b><br/> <b>Storage temperature (Range)</b><br/> <b>Storage humidity (Max)</b><br/> <b>Operating temperature (Max)</b><br/> <b>Flow resistance</b><br/>                     (at 15 min with of SAE10W40 at 20°C)<br/> <b>Viscosity (Range)</b><br/> <b>Precision (between 5 and 25 l/min for Next and 6 and 60 l/min for Next2)</b> </p> | <p>                     0.005 (Litres/minute)<br/>                     5 - 25 (Litres/minute)<br/>                     70 (Bar)<br/>                     170 (Bar)<br/>                     -20 - +70 (°C)<br/>                     95 (% RH)<br/>                     60 (°C)<br/>                     &lt;1 (Bar)                 </p>                                                                                                                                                     | <p>                     Oval gears<br/>                     0.030 (Litres/minute)<br/>                     50 (Litres/minute)<br/>                     70 (Bar)<br/>                     170 (Bar)<br/>                     -20 - +70 (°C)<br/>                     95 (% RH)<br/>                     60 (°C)<br/>                     &lt;0.5 (Bar)                 </p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ± 0.5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | of value indicated after calibration                                                                                                                                                                                                                                                                                                                                       |

## Screen

|              |                                     |                                   |
|--------------|-------------------------------------|-----------------------------------|
| Power supply | 2x1.5 V alkaline batteries size AAA |                                   |
| Battery life | 8000 · 15000 h                      |                                   |
| Weight       | 0.530 Kg<br>(including batteries)   | 0.620 Kg<br>(including batteries) |

  

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## VISTE ESPLOSE ED INGOMBRI

### EXPLODED VIEWS AND OVERALL DIMENSIONS

  

The diagram illustrates the exploded view of the device. At the top, the lid is shown with a dashed line indicating its position relative to the main body. Below the lid, the internal components, including a circuit board and various connectors, are shown. At the bottom, the base unit is shown with two AA batteries inserted into its battery compartment. The base unit has a circular top with a central opening and a small protrusion on the side.