

7 CUSTOMIZING THE METER

Customizing the METER means using the options offered by the METER to guarantee in easy, handy and accurate use. METER customization can be carried out by the Manager using the Customization Menu, which gives access to the following customization options:

- Setting the most frequently used **PRESET VALUES**.
- Selecting the Unit of measurement.
- Activating the **Auto RESET** function.
- Modifying the **Precision Step Factor (PS Factor)**.
- Modifying the **Calibration Factor (K Factor)**.

(• = Not available on all models)

7.1 CUSTOMIZATION MENU

To access the various customization functions and select the desired options, two different actions are possible on the key:

- This symbol indicates the necessity to **press** the key briefly with consequent release.

- This symbol indicates the necessity to **press and keep pressed the key** for a few seconds.

To exit the customization menu, independently from the activity in progress, press **RESET**. The currently displayed settings become immediately operational.

To access the customization menu:

- If the METER is off, press **RESET** to restart it. The METER will display:



If the METER displays the **Resettable TOTAL**, wait for a few seconds until the METER automatically displays the **TOTAL**.

Only in this condition it is possible to enter the customization Menu.

Simultaneously press **AUTO** and **RESET** keys and keep them pressed until the METER displays:



You have now entered the following activity: **Setting the most frequently used PRESET values**.

See paragraph 7.2 for setting mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Selecting the Unit of Measurement**.

See paragraph 7.3 for setting mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:

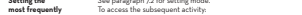


You have now entered the following activity: **Activating the Auto RESET function**.

See paragraph 7.4 for activation mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Modifying the Precision Step Factor (PS Factor)**.

See paragraph 7.5 for modification mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Modifying the Calibration Factor (K Factor)**.

See paragraph 7.6 for modification mode.

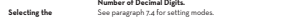
To exit the customization menu, independently from the activity in progress, press **RESET**. The currently displayed settings become immediately operational.

7.2 FREQUENTLY USED PRESET VALUES

The METER allows the operator to store a different most frequently used **PRESET** (AUTO... AUTO) which can be quickly recalled without having to set them each time by pressing the **AUTO** key.

The first time this activity is accessed, all the **PRESET values** stored (AUTO... AUTO) are set to zero.

When the METER displays:



To access the customization menu, independently from the activity in progress, press **RESET**. The currently displayed settings become immediately operational.

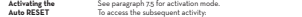
To access the customization menu:

If the METER is off, press **RESET** to restart it. The METER will display:



Only in this condition it is possible to enter the customization Menu.

Simultaneously press **AUTO** and **RESET** keys and keep them pressed until the METER displays:



You have now entered the following activity: **Setting the most frequently used PRESET values**.

See paragraph 7.2 for setting mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Selecting the Unit of Measurement**.

See paragraph 7.3 for setting mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Activating the Auto RESET function**.

See paragraph 7.4 for activation mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Modifying the Precision Step Factor (PS Factor)**.

See paragraph 7.5 for modification mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Modifying the Calibration Factor (K Factor)**.

See paragraph 7.6 for modification mode.

To exit the customization menu, independently from the activity in progress, press **RESET**. The currently displayed settings become immediately operational.

To access the customization menu:

If the METER is off, press **RESET** to restart it. The METER will display:



Only in this condition it is possible to enter the customization Menu.

Simultaneously press **AUTO** and **RESET** keys and keep them pressed until the METER displays:



You have now entered the following activity: **Setting the most frequently used PRESET values**.

See paragraph 7.2 for setting mode.

To access the subsequent activity:

Press and keep the **AUTO** key pressed until the METER displays:



You have now entered the following activity: **Selecting the Unit of Measurement**.

7.3 UNIT OF MEASUREMENT

The METER allows the user to select one of the following Units of Measurement:

- LITERS - L
- GALLONS - G
- PINTS - P
- QUARTS - Q
- LITERS PER GALLON (L/G)
- GALLONS PER LITER (G/L)

The above-mentioned Units of Measurements refer to the **Batch Total** indicator.

If the LITERS unit is selected, the **TOTALS** are expressed in **LITERS**.

If the GALLONS, PINTS or QUARTS unit is selected, the **TOTALS** are expressed in **GALLONS**.

When the METER displays:



Press **AUTO** to go to the next Unit of Measurement.

Keep on pressing **AUTO** until the desired Unit of Measurement is displayed.



Press **AUTO** and keep it pressed to go to the next activity.



Press **RESET** to exit the customization menu.

The modification of the unit of measurement does NOT require a new Calibration (see paragraph 7.6).

If the TOTAL indicator is a value other than zero, this value is **automatically converted** from LITERS into GALLONS or vice versa, if necessary, when the Unit of Measurement is being modified.

7.4 DECIMAL DIGITS

The METER allows the user to select the number of Decimal Digits by displaying the **NUMERICAL** (two decimal digit) or the **THOUSANDS** (three decimal digit) of the selected Unit.

The METER displays:



Press **AUTO** to modify the selection.

The METER displays:



Press **AUTO** again to return to the previous selection.

The METER displays the **FLOATING POINT** Batch total displayed.

Independently from the selection performed, two or three decimal digits.

as soon as the amount dispensed

exceeds the value, the METER displays two decimal digits only.

as soon as the amount dispensed exceeds 99 units, the METER displays three decimal digits.

Press **AUTO** and keep it pressed to access the next activity.

Press **RESET** to exit the customization menu.

7.5 AUTO RESET

The METER is equipped with an Auto RESET function.

When the function is activated, a few minutes after the end of a dispensing operation, the METER automatically resets the Batch Total.

When the METER displays:



Press **AUTO** to modify the selection.



Press **AUTO** again to return to the previous selection.

Press **RESET** to exit the customization menu.

Independently from the selection carried out, the **Batch Total** supplied is never reset of the dispensing operation has been performed in **AUTO** mode.

Press **AUTO** and keep it pressed to access the next activity.



Press **RESET** to exit the customization menu.

The function described in this paragraph only concerns those operators who want to obtain the maximum dispensing stop precision in **AUTO** mode.

To obtain a correct METER calibration, it is necessary to use an accurate sample container having a capacity not less than 5 liters.

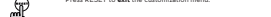
Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

The correct technique to be adopted at the final stages of the filling operation in the calibrated container is "small topping" up; this is achieved by rapidly pulling the trigger fully down and then releasing it again quickly.

Press **AUTO** to confirm the end of the calibration dispensing.



Press **RESET** to exit the customization menu.

7.6 STOP PRECISION IN AUTO MODE

The function described in this paragraph only concerns those operators who want to obtain the maximum dispensing stop precision in **AUTO** mode.

To obtain a correct METER calibration, it is necessary to use an accurate sample container having a capacity not less than 5 liters.

Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

The correct technique to be adopted at the final stages of the filling operation in the calibrated container is "small topping" up; this is achieved by rapidly pulling the trigger fully down and then releasing it again quickly.

Press **AUTO** to confirm the end of the calibration dispensing.



Press **RESET** to exit the customization menu.

The function described in this paragraph only concerns those operators who want to obtain the maximum dispensing stop precision in **AUTO** mode.

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Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

The correct technique to be adopted at the final stages of the filling operation in the calibrated container is "small topping" up; this is achieved by rapidly pulling the trigger fully down and then releasing it again quickly.

Press **AUTO** to confirm the end of the calibration dispensing.



Press **RESET** to exit the customization menu.

The function described in this paragraph only concerns those operators who want to obtain the maximum dispensing stop precision in **AUTO** mode.

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Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

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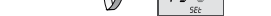
Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

The correct technique to be adopted at the final stages of the filling operation in the calibrated container is "small topping" up; this is achieved by rapidly pulling the trigger fully down and then releasing it again quickly.

Press **AUTO** to confirm the end of the calibration dispensing.



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To obtain a correct METER calibration, it is necessary to use an accurate sample container having a capacity not less than 5 liters.

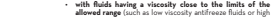
Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

The correct technique to be adopted at the final stages of the filling operation in the calibrated container is "small topping" up; this is achieved by rapidly pulling the trigger fully down and then releasing it again quickly.

Press **AUTO** to confirm the end of the calibration dispensing.



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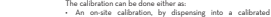
Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

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The function described in this paragraph only concerns those operators who want to obtain the maximum dispensing stop precision in **AUTO** mode.

To obtain a correct METER calibration, it is necessary to use an accurate sample container having a capacity not less than 5 liters.

Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

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To obtain a correct METER calibration, it is necessary to use an accurate sample container having a capacity not less than 5 liters.

Completely purge all air from the unit (see par. 5.7) before performing the calibration.

Perform the calibration dispensing at a steady flow-rate, by pulling the trigger fully down and keeping it in open position until the container is full.

During the final dispensing phase, do not reduce the flow-rate to reach the graduated area in the calibrated container.

7.7 CALIBRATION

The METER is equipped with a 1-liter-counter high precision unit.

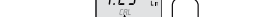
The METER allows the user to select the number of Decimal Digits by displaying the **NUMERICAL** (two decimal digit) or the **THOUSANDS** (three decimal digit) of the selected Unit.

The METER displays:



Press **AUTO** to modify the selection.

The METER displays:



Press **AUTO** again to return to the previous selection.

ENGLISH (Translation of the original language)

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2 CE DECLARATION OF CONFORMITY

The undersigned,
PIUSI S.p.A.
 Via Piccinetti 16/A s.l. Sarnano
 06049 Sarnano - Perugia - Italy

DECLARES on its own responsibility, that the machine described below:
 Description: Dispensing nozzle for liquid

is in compliance with the regulatory regulations which transpose directives:
 • **2011/65/EU (electromagnetic compatibility directive)**
 Documents are made available to the appropriate authority on request at Piusi S.p.A.
 Alternatively, it can be requested by e-mail at info@piusi.com and by registered mail.

The person in charge of writing both the technical file and the conformity statement is Ottavio Varini as the legal representative.

Suzara 20/04/2016

3 GENERAL PRECAUTIONS

In order to protect workers' safety to avoid damaging and before performing any operation, please read and familiarize with the whole instruction manual.

In order to regard particularly important instructions or warnings, the following symbols are used:

This symbol highlights important aspects as to **SAFETY**.

This symbol highlights important aspects as to the **CORRECT USE** of the METER.

This symbol highlights important aspects as to **POLLUTION HAZARDS**.

All paragraphs marked with this symbol concern the **Operator**.

All paragraphs marked with this symbol concern the **Manager**.

All paragraphs marked with this symbol concern the **Installer**.

All paragraphs marked with this symbol concern the **Manual storage**.

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ENGLISH (Translation of the original language)

4 GETTING TO KNOW THE METER

The METER is a dispensing nozzle for oils and other fluids, to be installed as a final shut-off device at the end of pressurized flexible hoses.

Besides guaranteeing an exact measurement and display of the fluid amount dispensed, when used as a normal dispensing nozzle, **the METER also allows the user to PRESELECT the quantity to be supplied and automatically stops dispensing when the preset amount has been reached.**

The METER integrates:

- **ERGONOMICS**: A swivel, with a rubber cover, which allows the user to rotate the handle independently from the connected flexible hose.
- **FLOW CONTROL**: A flow control valve, activated by a trigger, which is equipped with a protection against accidental starts.
- **MEASUREMENT**: A meter with two gears, controlled by an electronic board and equipped with a battery-powered microprocessor.
- **CRYSTAL DISPLAY**: A large liquid-crystal display, integrated in the 5-key keypad, for the communication between the METER and the Operator.
- **SHUT-OFF VALVE**: A motorized valve shutting system, automatically activated by a microprocessor when dispensing a PRESELECTED amount (AUTO mode).
- **MULTI-POSITION ADJUSTMENT**: A multi-position extension to adjust the angle of the valve with respect to the handle.
- **ADJUSTABLE NOZZLE**: An automatic nozzling valve, adjustable with respect to the nozzle, to further facilitate dispensing in confined spaces.

4.1 DETAILED INFORMATION ON THE METER

The instructions provided by this manual safely both the installer's and the user's requirements (Manager and Operator).

The manual contains a symbol alongside each paragraph indicating the person the information is intended for.

The METER offers several options (selection of the unit of measurement, selection of the number of Decimal Digits, Calibration, etc.). At least one skilled Operator (hereinafter referred to as the Manager) must know this data in order to allow the Operator to use the METER correctly. The Manager must read thoroughly all paragraphs concerning the Manager and the Operator.

All paragraphs marked with this symbol concern the installer only.

It is responsible for installing the METER and is required to read the manual thoroughly on paragraph 4.1.

The final user, as well as the qualified technicians authorized to installation and maintenance, must be able to use it at Piusi S.p.A.

The final user, as well as the qualified technicians authorized to installation and maintenance, must be able to use it at Piusi S.p.A.

All rights arising from these standards are reserved to Piusi S.p.A., even partial reproduction of this manual, its publication, distribution, communication to the public, distribution, marketing in any form, translation and/or processing, lending, and any other activities are expressly by law to Piusi S.p.A.

This manual is an essential and integral part of the product and must be handed over to the personnel who carries out the installation, use and maintenance of the METER.

Read all indications given in this manual as they provide important instructions as to safe installation, use and maintenance.

Keep this manual safe for future reference.

Do not remove, tear or modify any part of this manual for any whatsoever reason.

In case of loss or damage, a new copy can be requested to the manufacturer providing the relevant code is indicated.

The manufacturer is not liable for any damage to persons, things or the unit itself, if the latter is installed or used incorrectly.

3.1 SAFETY WARNINGS

You must avoid any contact between the electrical power supply and the fluid that needs to be pumped.

Before any checks or maintenance work are carried out, disconnect the power source.

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ENGLISH (Translation of the original language)

5 INSTALLING THE METER

This paragraph describes the necessary operations to be carried out when the METER is installed for the first time on a new system or to replace an existing nozzle with the METER.

The LCD automatically turns off if the METER is not used for a certain period.

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ENGLISH (Translation of the original language)

6 USING THE METER

The METER has been designed to be used as a component of a centralized system for oil distribution and other industrial fluids, which must be **immediately and installed by specialized personnel in compliance with the standards** relevant to such a pressurized system.

To explain the installation and maintenance operations relevant to the METER, refer to the following diagram which shows a typical installation, as regards to the components located directly upstream of a "dispensing outlet" of the METER.

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ENGLISH (Translation of the original language)

7 DISPENSING IN MANUAL MODE

The METER can be used as a normal dispensing nozzle if the operator does not press an automatic stop valve.

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