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7 CUSTOMIZING THE METER

Customizing the METER means using the options offered by the METER to guarantee an easy, handy and accurate use. The METER can be customized using the METER's own menu, the Customization Menu which gives access to the following customization options:

- Selecting the Unit of measurement.
- Selecting the Number of Decimal Digits.
- Activating the Auto RESET function.
- Modifying the Precision Stop Factor (PS Factor).
- Modifying the Calibration factor (K Factor).

(*) Not available on all models.

7.1 CUSTOMIZING MENU

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

- This symbol indicates the necessity to press the key briefly with consequent release.
- This symbol indicates the necessity to press and keep the key for a few seconds.

To exit the customization menu, independently from the activity in progress, **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 until the METER displays:



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

See paragraph 7.3 for setting mode.

To access the subsequent activity:

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



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: **Selecting the Number of Decimal Digits**.

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 7.3 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 DECIMAL DIGITS**.

See paragraph 7.3 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 7.3 for modification mode.

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

The first time this activity is accessed, all the PRESET values stored (AUTO...-AUTO9) are set to zero.

When the METER displays:



FREQUENTLY USED PRESET VALUES

The METER allows the operator to store 5 different most frequently used PRESET values (AUTO...-AUTO9) which can be quickly recalled without having to set them each time by hand.

When the METER displays:



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

Individually from the selection performed (two or three decimal digits):

• as soon as the amount dispensed reaches 10 liters, the METER displays two decimal digits only;

• as soon as the amount dispensed exceeds 999.9 liters, the METER displays one decimal digit only.

When the METER displays:



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

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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:



Index of the PRESET value AUTO:



Use the numeric keys to set a new PRESET value (which will replace the value previously stored in memory). If for example it must be assigned the value 312 to AUTO9 press:



The METER displays:

By keeping the keys pressed, the value continues to vary.

To modify or check the last most frequently used PRESET value, press the **AUTO** key. The METER will display:

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

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

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

7.6 STOP PRECISION IN AUTO MODE

The function described in this paragraph only concerns those operations carried out in **AUTO** mode. If a slight excess of the precision value (a few hundredths of liter) does not cause any problem, the customization of the precision value is not necessary.

The METER, in **AUTO** mode, allows the user to obtain a high precision stop, thus dispensing the precise amount without having to stop the dispensing operation.

To guarantee this high precision, especially when the unit operates at the maximum allowed flow-rate, the value selected must be lower than the maximum allowed flow-rate by a few **Unit** hundredths.

To guarantee the dispensing stop precision, the stop precision must be lower than the maximum allowed flow-rate. To allow the Manager to obtain the highest precision stop, the unit must be calibrated with a **Stop Precision Factor** (Dispensing Factor). To do this, during the METER customization, can select a **PS Factor** ranging between **0.000** and **1.000**. The **PS Factor** is set to **0.000** by default. The **PS Factor** is set by default to **0.000** during the METER customization, can select a **PS Factor** ranging between **0.000** and **1.000**. The **PS Factor** is set to **0.000** by default.

When the METER displays:

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

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

7.7 UNIT OF MEASUREMENT

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

- QTS - QUARTS
- DTS - PINTS
- LITERS
- CAL - GALLONS (U.S. Gallon)

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

- 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 increase the PS Factor by one unit.

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.

7.8 DECIMAL DIGITS

The METER allows the user to select the number of Decimal Digits displayed, the HUNDREDTHS (ten decimal digits) or the THOUSANDS (three decimal digits) of the selected Unit.

The METER displays:

Press **AUTO** to modify the selection.

How to calibrate?

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

7.9 CALIBRATING

The METER is equipped with a liter-counter high precision gear, factory pre-calibrated.

If the METER is used:

- with a fluid viscosity **slightly close to the limits of the allowed range** (such as low viscosity refrigerants or high viscosity oils for gear boxes)
- when the dispensing operation is performed at the min. and max. values of the allowed range) it may be necessary to carry out an **on-site calibration**.

When the METER displays:

Press the **AUTO** key, release it and press the **AUTO** key again.

The METER displays:

When the METER displays:

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

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press the **AUTO** key, it is possible to start the calibration by dispensing the fluid into a calibrated container.

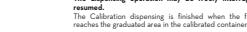
During the METER displays:



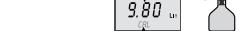
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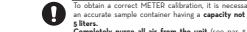
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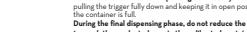
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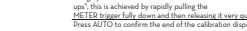
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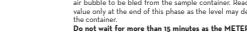
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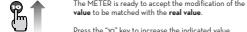
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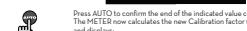
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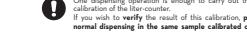
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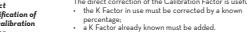
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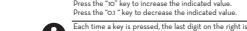
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2 CE DECLARATION OF CONFORMITY

The undersigned

PIUSI S.p.A.

Via Pescinetti 1/a, c.z. Tangerino

44050 Serravalle - Mantova - Italy

DECLARAS

On its own responsibility, that the machine described below:

Description: Dispensing nozzle for oil.

Model: K900

is in compliance with the legislative regulations which transpose directives:

-2010/30/EU (electromagnetic compatibility directive) and subsequent amendments.

Documentation: Declaration of Conformity, CE Declaration of Conformity.

Alternatively, it can be requested writing to the e-mail: doc@piusi.com

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

Varsó, 20/04/2016

Ottó Varró
The legal representative

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 signal 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 **avoid** pollution hazards.

The instructions provided by this manual satisfy both the requirements of the User's requirements (Manager and Operators) of the METER.

In the Table of Contents a symbol alongside each paragraph indicates the section of the METER or provides an ergonomic handle.

All paragraphs marked with this symbol concern the Operator.

The Operator is the person who uses the METER to carry out the dispensing operation.

Therefore the Operator is not expected to read paragraphs other than those marked with this symbol.

The instructions provided with this symbol concern the Manager.

The METER offers several options (selection of the unit of measurement, selection of the operating mode, selection of the calibration etc.). At least one skilled Operator (hereafter referred to as the Manager) must know this data in order to allow the correct use of the METER.

Therefore the Manager is not expected to read paragraphs other than those marked with this symbol.

The instructions provided with this symbol concern the Installer.

The METER is the exclusive owner of all rights enjoyed by Piusi S.p.A. in the field of industrial dispensing.

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This manual is an essential and integral part of the product.

The METER is a professional dispensing nozzle which carries out the installation, use and maintenance of the METER.

The instructions given in this manual are to provide important instructions as to the installation, use and maintenance.

Keep this manual for future reference.

Do not modify any part of this manual for any whatsoever reason.

The METER 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 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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4 GETTING TO KNOW THE METER

The METER is a dispensing nozzle for oils and other fluids, to be used as a final shuttle device at the end of pressurized fluid lines.

Besides guaranteeing an exact measurement and display of the quantity dispensed, when used in conjunction with the PRESET key, the METER automatically stops dispensing when the preset value has been reached.

The METER integrates:

• Lite-counter meter

• Multi-position extension

• An ergonomic handle

• A swivel, with a rubber cover, which allows the user to rotate the handle independently from the connected flexible hose.

• A trigger, which is activated by a trigger, which is equipped with a protection against accidental starts.

• A meter with oval gears, controlled by an electronic board and equipped with a battery-powered microprocessor.

• A numeric keypad, which is integrated in the 5-key keypad, for the communication between the K900 and the Operator.

• A motorized valve shifting system, automatically activated by a microprocessor when dispensing a PRESETED amount (AUTO mode).

• A multi-position extension to adjust the angle of the valve with respect to the handle.

• An automatic stop valve, adjustable with respect to the end, to further facilitate dispensing in confined spaces.

4.1 DETAILED INFORMATION ON THE METER

The handle

An external shock-resistant plastic cover contains all the components of the METER and provides an ergonomic handle.

The batteries

The batteries are housed in the upper compartment. The cover is held by means of four cross-head screws. The user can easily access this compartment to replace the batteries.

The valve and filter

The METER is equipped with a swivel to be connected to the flexible hose.

The METER is equipped with a 1/2" female thread (BPS or NPT) and the hoses the filter.

The large filtering surface guarantees a reduced pressure loss.

The trigger cover of the swivel

During installation the swivel may be equipped with a rubber cover, which allows the user to rotate the handle and the metal end of the flexible hose from damaging the vehicle body.

This cover is available in different colors, which can be used as a color code to identify the dispensed product easily.

The METER is equipped with a balanced valve, controlled by a trigger, which is activated by a trigger, which is equipped with a protection against accidental starts.

The value is in closed position.

Fully pressed

The METER is in maximum open position.

Locked in open position

The value is in open position for automatic operation.

The liquid-crystal display "LCD"

The METER uses an LCD with the following numeric registers and indications:

1. Batch total (4 digits, floating point)

2. Totals (7 digits)

3. Indication of the Total type (TOTAL / Resettable TOTAL)

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

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

6. This manual is an essential and integral part of the product.

The METER is a professional dispensing nozzle which carries out the installation, use and maintenance of the METER.

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