

7 CUSTOMIZING THE METER

Customizing the METER means using the options offered by the METER to guarantee an easy, handy and accurate use.

- Activating 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).

7.1 CUSTOMIZING MENU

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

- The symbol indicates the necessity to press the key briefly with consequent release.
• The 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 Residual 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 and the METER displays:

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

See paragraph 7.2 for setting modes. 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 modes. 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 7.4 for setting modes. 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 7.5 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 Stop Factor (PS Factor).

See paragraph 7.6 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 7.7 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:

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

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

See paragraph 7.2 for setting modes. 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 modes. 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 7.4 for setting modes. 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.

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See paragraph 7.6 for modification mode. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:

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See paragraph 7.7 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:

If the METER displays the Residual 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 and the METER displays:

7.2 FREQUENTLY USED PRESET VALUES

The METER allows the operator to store 4 different most frequently used PRESET values (AUTO1 - AUTO4) which can be quickly accessed.

At any time this activity is necessary, all the PRESET values stored (AUTO1 - AUTO4) are available to access.

When the METER displays:

Press AUTO to modify the selection.

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

To modify or check the next most frequently used PRESET value, press the AUTO key, the METER will display:

Independently from the selection carried out, the Batch Total is updated in real time 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 METER allows the user to select one of the following Units of Measurement:

- QTZ - QUARTS
• GALS - GALLONS
• LIT - LITERS
• GAL - GALLONS (US CUSTOM)

The abbreviations Units of Measurements refer to the Batch Total indicator.

If the UNITS 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 or pressing AUTO until the desired Unit of Measurement is displayed.

Press RESET to exit the customization menu.

The modification of the unit of measurement does NOT require a new Calibration (see paragraph 7.7).

If the TOTAL indicator value shows that this value is automatically converted from LITERS into GALLONS or vice versa, it is necessary, when the Unit of Measurement is being modified.

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

See paragraph 7.3 for setting modes. 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 7.4 for setting modes. 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 7.5 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 Stop Factor (PS Factor).

See paragraph 7.6 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 7.7 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:

If the METER displays the Residual 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 and the METER displays:

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

See paragraph 7.2 for setting modes. 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 modes. 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 7.4 for setting modes. 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 7.5 for activation mode. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:

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See paragraph 7.6 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 7.7 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:

If the METER displays the Residual Total, wait for a few seconds until the METER automatically displays the TOTAL.

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.

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

To modify or check the next most frequently used PRESET value, press the AUTO key, the METER will display:

Independently from the selection carried out, the Batch Total is updated in real time 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 METER allows the user to select one of the following Units of Measurement:

- QTZ - QUARTS
• GALS - GALLONS
• LIT - LITERS
• GAL - GALLONS (US CUSTOM)

The abbreviations Units of Measurements refer to the Batch Total indicator.

If the UNITS 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 or pressing AUTO until the desired Unit of Measurement is displayed.

Press RESET to exit the customization menu.

The modification of the unit of measurement does NOT require a new Calibration (see paragraph 7.7).

If the TOTAL indicator value shows that this value is automatically converted from LITERS into GALLONS or vice versa, it is necessary, when the Unit of Measurement is being modified.

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

See paragraph 7.3 for setting modes. 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 7.4 for setting modes. 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 7.5 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 Stop Factor (PS Factor).

See paragraph 7.6 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 7.7 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:

If the METER displays the Residual 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 and the METER displays:

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

See paragraph 7.2 for setting modes. 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 modes. 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 7.4 for setting modes. 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 7.5 for activation mode. To access the subsequent activity: Press and keep the AUTO key pressed until the METER displays:

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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 Residual 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.

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. If a 1/10th excess of the preset value (or low hundreds of litres) does not cause any problem, the present setting can be ignored.

The METER, in AUTO mode, allows the user to obtain a high precision stop, thus dispensing exactly the preset amount without exceeding the PRESET value.

To guarantee this high precision, especially when the unit operation at the maximum allowed flowrate, the value does not drop when the PRESET value is exceeded, but when the dispensed amount is lower than the PRESET value by a few Unit handfulls.

To guarantee this high precision, the dispensing stop precision, this preset value must not be fixed, but it is strictly dependent on the flowrate used. To allow the Manager to obtain the highest stop precision, the unit has been equipped with a Precision Factor (Precision Stop Factor) that the Manager, during the METER initialization, can select a PS Factor ranging between 100 and 1999.

By selecting PS=0 (zero-flow equal to ZERO), the METER will stop the flow at the PRESET value.

The higher the flow rate, the higher the indicated PS value will be. Selecting a PS value of 1000, the dispenser stops when the amount dispensed is lower than the preset value by some hundredths of litre.

When the METER displays:

Press AUTO to increase the PS Factor by one unit.

By keeping the keys pressed, the value changes, slowly at first and then rapidly.

Each time a key is pressed, the last digit on the right is modified by one unit.

By keeping the keys pressed, the value changes, slowly at first and then rapidly.

When the METER displays:

Press AUTO to increase the PS Factor by one unit.

By keeping the keys pressed, the value changes, slowly at first and then rapidly.

Each time a key is pressed, the last digit on the right is modified by one unit.

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When the METER displays:

Press AUTO to increase the PS Factor by one unit.

By keeping the keys pressed, the value changes, slowly at first and then rapidly.

Each time a key is pressed, the last digit on the right is modified by one unit.

By keeping the keys pressed, the value changes, slowly at first and then rapidly.

When the METER displays:

8 MAINTENANCE OF THE METER

The only routine maintenance operations required by the METER are:

- Filter replacement.
• Filter cleaning.
These activities can be easily performed using standard tools. Any other extraordinary maintenance operation must be carried out by an authorized Service Centre.

After a few seconds the METER automatically exits the customization mode and starts using the new Calibration Factor.

Press the AUTO key. It is possible to start the calibration by dispensing the fluid in a calibrated container.

During dispensing the METER displays:

Batch total dispensed

Blinking

Blinking

Blinking

Blinking

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