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1 EC DECLARATION OF CONFORMITY

The undersigned: PIUSI S.p.A. via Pacinotti 16/A - Z.I. Rangungo - 46059 Suzzara (MN) - Italy
HEREBY STATES under its own responsibility that the equipment described in the attached Declaration of Conformity complies with the requirements of the following directives:

2 GENERAL WARNINGS
Important precautions
Symbols used in the manual
WARNING
NOTE
Manual preservation
Reproduction rights

3 SAFETY INSTRUCTIONS SAFETY WARNINGS

3.1 SAFETY WARNINGS
WARNING: 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.
When metering flammable liquids, observe precautions against fire or explosion.
When handling hazardous liquids, always follow the liquid manufacturer's safety precautions.
Always dispose of used cleaning solutions in a safe manner according to the solvent manufacturer's instructions.
During meter removal, liquid may spill. Follow the liquid manufacturer's safety precautions to clean up minor spills.
Do not blow compressed air through the meter.
Do not allow liquids to dry inside the meter.
Use equipment only in well-ventilated areas.
Eliminate all ignition sources such as cigarettes and portable lamps.
Pack work area free of debris, including gears 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 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

3.2.1 Please refer to the safety data sheet for the product
3.2.2 When operating with meter and in particular during refueling, do not smoke and do not use open flame.
3.2.3 When metering flammable liquids, observe precautions against fire or explosion.
3.2.4 When handling hazardous liquids, always follow the liquid manufacturer's safety precautions. Do not substitute the meter.

3.3 GENERAL SAFETY RULES

3.3.1 Wear protective equipment that is:
- Suited to the operations that need to be performed;
- Resistant to cleaning products.
3.3.2 Safety shoes.
3.3.3 Close-fitting clothing.
3.3.4 Protective gloves.
3.3.5 Safety goggles.
3.3.6 Instruction manual

3.4 PACKAGING

K600 B/3 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 technical support.

4 HOW K600 B/3 WORKS: GENERAL

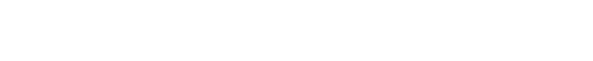
K600 B/3 represents a family of meters developed to satisfy a wide range of requirements for the control, measurement, dispensing and transfer of lubricating oils and fuels. Its measurement principle is based on elliptical gears that provide high accuracy over a wide range of flow rates together with reduced loss of head. The fluid passing through the instrument turns the gears whose rotation transfers constant "fluid units". The exact measurement of the fluid dispensed is carried out by counting the rotations of the gears and the "fluid units" transferred. The magnetic coupling, consisting of magnets installed in the gears and a magnetic switch located outside the measuring chamber, guarantees the seal of the measuring chamber and ensures the transmission of the impulses generated by the rotation of the gears to the microprocessor. The meter housing is made of die-cast aluminum and fitted with connections for the installation of threaded flanges, suitable for any type of tubing.
At the inlet opening a filtering disk of stainless steel mesh is installed, which can be accessed from the outside by removing the flange close to the flow rate selector.
- Normal Mode: Mode with display of Partial and Total amount supplied.
- Flow Rate Mode: Mode with display of Flow Rate, as well as the Partial amount supplied.
The METER is equipped with a non-volatile memory that stores the archived data regarding the supply operations made, even in the event of long periods of lack of power supply.
Maintenance
The electronic measurement instruments and the liquid crystal display (LCD) are installed on the upper part of the meter, insulated from the measuring chamber dampened by the fluid and sealed from the outside with a cover.

4.1 COMPATIBLE LIQUIDS

The liquids compatible with K600 B/3 are of low viscosity, namely:
- DIESEL FUEL, at a viscosity of from 2 to 5,35 cSt (at a temperature of 40°C)
- Minimum Flash Point (DIN 5185) according to UNEN 590
- MOTOR OIL, SYNTHETIC / MINERAL
NEVER USE WITH LIQUIDS OTHER THAN.

4.2 DISPLAY LCD

FOREWORD The "LCD" of the METER features two numerical registers and various indicators.
1 Partial register (5 figures with moving comma FROM 0.1 to 99999) that can indicate two types of total:
4.1 General Total that cannot be reset (TOTAL)
4.2 Resettable Total (Reset TOTAL)
2 Indication of battery charge
3 Indication of calibration mode
4 Totals register (6 figures with moving comma FROM 0.1 to 999999), that can indicate two types of total:
4.1 General Total that cannot be reset (TOTAL)
4.2 Resettable Total (Reset TOTAL)
5 Indication of total multiplication factor (x100)



MEASURE-MENT CHAMBER
6.1.1 PARTIAL RESET (NORMAL MODE)
6.1.2 RESETTING THE RESET TOTAL
6.2 DISPENSING WITH FLOW RATE MODE DISPLAY
6.2.1 PARTIAL RESET (FLOW RATE MODE)
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6.1.1 PARTIAL RESET (NORMAL MODE)

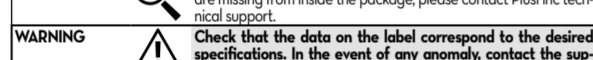
The partial register can be reset by pressing the reset key when the meter is in standby, meaning when the display screen shows the word "TOTAL".



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.



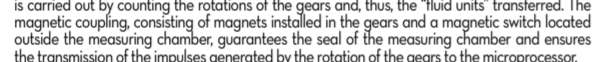
At the end of the process, a display page is first of all shown with the reset partial and the reset total.



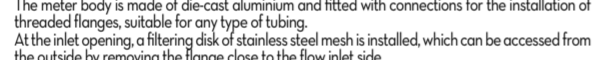
and, after a few moments, the reset total is replaced by the non resettable total.



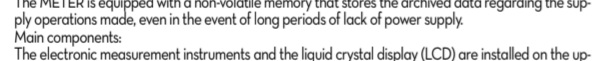
6.1.2 RESETTING THE RESET TOTAL
The reset total resetting operation can only be performed after resetting the partial register. The reset total can in fact be reset by pressing the reset key at length while the display screen shows reset total as on the following display page:



Schematically, the steps to be taken are:
1 Wait for the display to show normal standby display page (with total only displayed)
2 Press the reset key quickly
3 The meter starts to reset the partial
4 While the display page showing the reset total is displayed press the reset key again for at least 1 second



6.2 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:



6.2.1 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

7 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 K600 B/3 is operated.

7.1 DEFINITIONS

CALIBRATION FACTOR OR "K FACTOR"
Multiplication factor applied by the system to the electrical pulses received to transform these into measured fluid units.

FACTORY SET FACTOR
Factory-set default factor. It is equal to 1.000. This calibration factor ensures utmost precision in the following operating conditions:
Fluid: Motor oil SAE10W/40
Temperature: 20°C
Flow rate: 6-40 l/min
Fluid: Diesel
Temperature: 38°C
Flow rate: 10-100 l/min

USER K FACTOR
A quick and accurate calibration can be made by the user, the factory K factor can be restored by means of a simple procedure. Customized calibration factor, meaning modified by calibration.

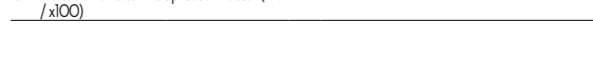
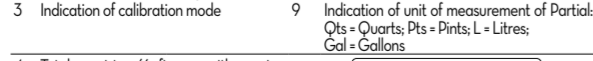
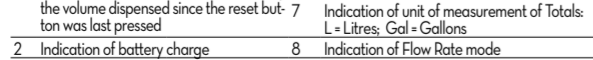
7.2 CALIBRATION MODE

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.

FOREWORD 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 K600 B/3 cannot be used for normal dispensing operations. In "Calibration" mode, the totals are not increased.

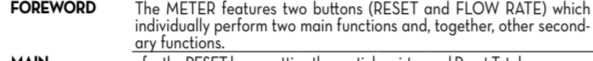
NOTE K600 B/3 features a non-volatile memory that keeps the data concerning calibration and the user's customized quantity stored for an indefinite time, even in the case of a long power break; after changing the batteries, calibration need not be repeated.



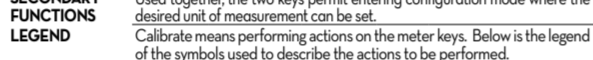
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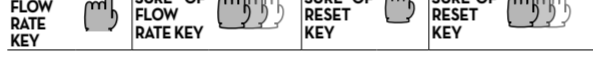
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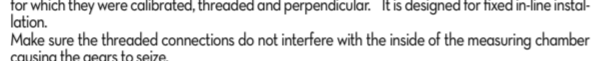
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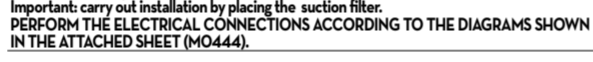
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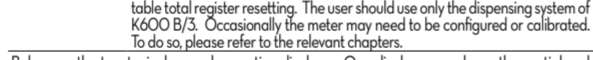
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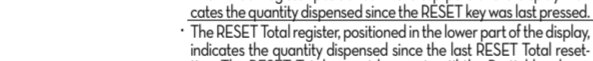
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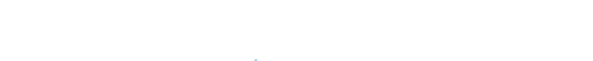
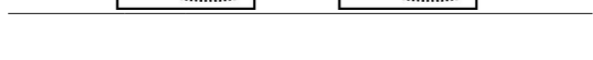
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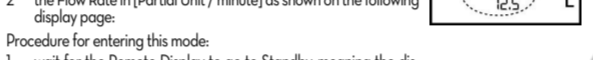
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7.2.100 CALIBRATION MODE

6.1.1 PARTIAL RESET (NORMAL MODE)

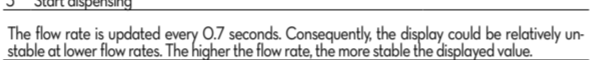
The partial register can be reset by pressing the reset key when the meter is in standby, meaning when the display screen shows the word "TOTAL".



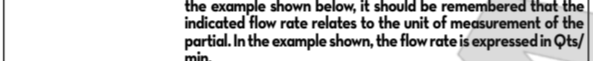
After pressing the reset key, during reset, the display screen first of all shows all the lit-up digits and then all the digits that are not lit up.



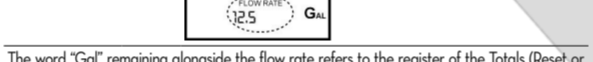
At the end of the process, a display page is first of all shown with the reset partial and the reset total.



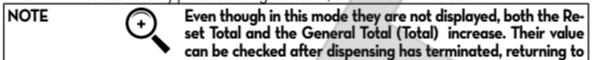
and, after a few moments, the reset total is replaced by the non resettable total.



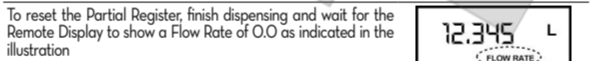
6.1.2 RESETTING THE RESET TOTAL
The reset total resetting operation can only be performed after resetting the partial register. The reset total can in fact be reset by pressing the reset key at length while the display screen shows reset total as on the following display page:



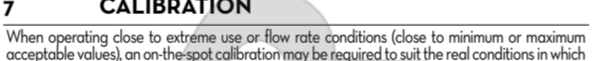
Schematically, the steps to be taken are:
1 Wait for the display to show normal standby display page (with total only displayed)
2 Press the reset key quickly
3 The meter starts to reset the partial
4 While the display page showing the reset total is displayed press the reset key again for at least 1 second



6.2 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:



6.2.1 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

7 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 K600 B/3 is operated.

7.1 DEFINITIONS

CALIBRATION FACTOR OR "K FACTOR"
Multiplication factor applied by the system to the electrical pulses received to transform these into measured fluid units.

FACTORY SET FACTOR
Factory-set default factor. It is equal to 1.000. This calibration factor ensures utmost precision in the following operating conditions:
Fluid: Motor oil SAE10W/40
Temperature: 20°C
Flow rate: 6-40 l/min
Fluid: Diesel
Temperature: 38°C
Flow rate: 10-100 l/min

USER K FACTOR
A quick and accurate calibration can be made by the user, the factory K factor can be restored by means of a simple procedure. Customized calibration factor, meaning modified by calibration.

7.2 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.

FOREWORD 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 K600 B/3 cannot be used for normal dispensing operations. In "Calibration" mode, the totals are not increased.

NOTE K600 B/3 features a non-volatile memory that keeps the data concerning calibration and the user's customized quantity stored for an indefinite time, even in the case of a long power break; after changing the batteries, calibration need not be repeated.

