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The undersigned: PIUSI S.p.A.
Via Rasnotti 16/A, 21 Rangovino - 46029 Sassara - Mantova - Italy
HERBEY STATES under its own responsibility that the equipment described below...

GENERAL WARNINGS

To ensure operator safety and to protect the dispensing system from potential damage, workers must be fully acquainted with this instruction manual before attempting to operate the dispensing system.

SAFETY INSTRUCTIONS

3.1 SAFETY WARNINGS
Mains - preliminary checks before installation
Maintenance control
FIRE AND EXPLOSION

SAFETY INSTRUCTIONS

3.2 FIRST AID RULES
When operating the system and in particular during refuelling, do not smoke and do not use open flame.

GENERAL SAFETY RULES

Wear protective equipment that is suited to the operations that need to be performed, resistant to cleaning products.

PACKAGING

K600 COMES PACKED IN A CARDBOARD BOX WITH A LABEL INDICATING THE FOLLOWING DATA:

INSTALLATION

K600 METER or PULSER features a 1 inch or 3/4 inch inlet and outlet, depending on the fluid for which they are trained, threaded and perpendicular. It is designed for fixed-in-line installation.

3.5 PACKAGE CONTENTS/PRE-INSPECTION
FOREWORD
NOTE
WARNING

KNOWLEDGE K600

K600 - meter and pulser versions - 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.

operating modes

Main components: K600
1- Display LCD
2- RESET button
3- Measuring chamber
4- CAL button
5- Battery housing
6- Filter

The measurement electronics and the LCD display are fitted in the top part of the meter, isolated from the fluid both measuring chamber and sealed from the outside by means of a cover.

LCD DISPLAY (ONLY METER VERSION)

The "LCD" of the METER features two numerical registers and various indications displayed to the user only when the applicable function is required.

VERSION PULSER

The PULSER version is a pulse emitter (reed bulb) which translates the magnetic field variations generated by gear rotation into electric pulses to be sent to an external receiver.

USERS BUTTONS

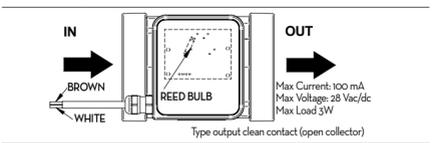
The METER features two buttons (RESET and CAL) which individually perform two main functions:
- the RESET key, resetting the partial register and Reset Total
- the CAL key, entering instrument calibration mode

INSTALLATION

K600 METER or PULSER features a 1 inch or 3/4 inch inlet and outlet, depending on the fluid for which they are trained, threaded and perpendicular. It is designed for fixed-in-line installation.

PACKAGING

K600 COMES PACKED IN A CARDBOARD BOX WITH A LABEL INDICATING THE FOLLOWING DATA:



DAILY USE

The only operations that need to be done for daily use are partial and/or resettable total register resetting. The user should use only the dispensing system of K600.

PULSER VERSION

The pulser version of K600's meter when properly connected to the pulse receiver, does not need any start/stop operation.

Partial register

Positioned in the top part of the display indicates the quantity dispensed since the RESET key was last pressed

RESET Total register

Positioned in the lower part of the display, indicates the quantity dispensed since the last RESET Total register. The RESET Total cannot be reset until the Partial has been reset, vice versa, the Partial can always be reset without resetting the RESET Total.

General TOTAL register (Total)

Share the same area and digits of the display. For this reason, the two totals will never be visible at the same time, but will always be displayed alternately.

NOTE

6 digits are available for Totals, plus two icons x10 / x100. The flow rate is indicated by the digits 0.0 to 9.99999 x 10 to 999999 x 10 to 100000 x 10 to 999999 x 10 to 100000 x 10 to 999999 x 10

DISPENSING IN NORMAL MODE

Normal mode is the standard dispensing. While the count is made, the partial and resettable total are displayed at the same time (reset total).

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".

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 this reset total as on the following display page.

DISPENSING IN FLOW RATE MODE

It is possible to dispense, displaying at the same time:
- the dispensed partial
- the Flow Rate in (Partial Unit / minute) as shown on the following display page.

DISPENSING IN FLOW RATE MODE

Procedure for entering this mode:
- wait for the meter to go to Standby, meaning the display screen shows Total only
- quickly press the CAL key.

DISPENSING IN FLOW RATE MODE

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.

DISPENSING IN FLOW RATE 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.

PARTIAL RESET

To reset the Partial Register, finish dispensing and wait for the meter to show a Flow Rate of 0.0 as indicated in the illustration

then quickly press RESET

DEFINITIONS

This is the 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.

7.1 CALIBRATION

This is the 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.

7.2 CALIBRATION MODE

K600 METER is supplied with a factory calibration that ensures precise measuring in most operating conditions.

7.2.1 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.

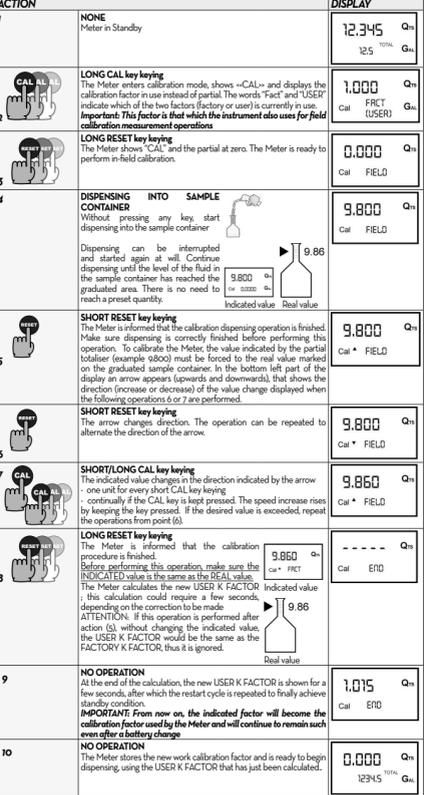
7.2.2 IN FIELD CALIBRATION PROCEDURE

The meter enters the 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.

7.2.3 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.

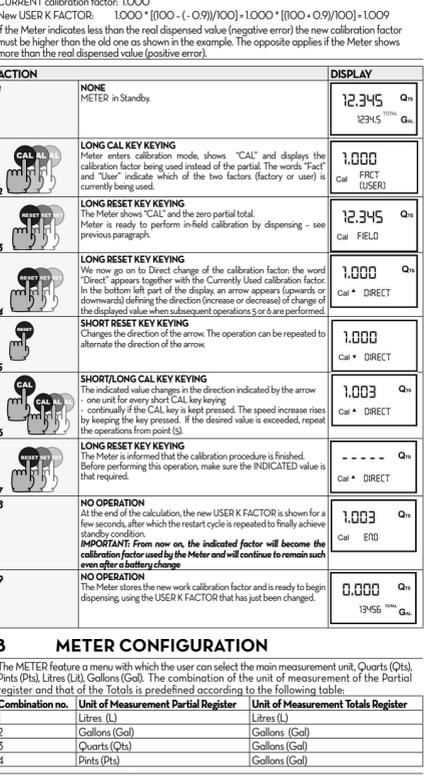
7.2.2.1 IN-FIELD CALIBRATION PROCEDURE



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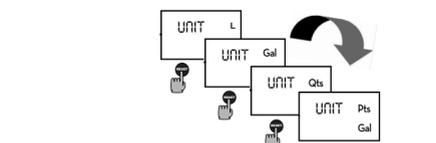
7.2.2.1 IN-FIELD CALIBRATION PROCEDURE



METER CONFIGURATION

The METER features a menu with which the user can select the main measurement unit, Quarts (Qt), Pints (Pt), 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:

Table with 4 columns: Combination no., Unit of Measurement Partial Register, Unit of Measurement Totals Register, and Unit of Measurement.



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.

ATTENTION

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.

MAINTENANCE CHANGE BATTERY

The METER has been designed to require a minimum amount of maintenance. The only maintenance jobs required are:

BATTERY REPLACEMENT WARNING

K600 should be installed in a position allowing the BATTERIES to be replaced without removing it from the system.

ATTENTION

When the battery charge falls below the first level on the LCD, the fixed battery symbol appears. In this condition, K600 continues to operate correctly, but the fixed icon warns the user that it is ADVISABLE to change the batteries.

ATTENTION

If K600 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.

ATTENTION

Do not discard the old batteries in the environment. Refer to local disposal regulations.

9.2 CLEANING

The K600 measuring chamber can be cleaned without removing the instrument from the line on which it is fitted. Make sure the gears are turning freely before closing the cover.

ATTENTION

Always make sure that the liquid has drained from the meter before cleaning.

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MADE IN ITALY

Instruction for use, maintenance and calibration

Gebruiksaanwijzing, Wartung und Kalibrierung

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