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DECLARATION OF CONFORMITY

The undersigned:
PIUSI S.p.A/Via Padinotti cm. 21/Rangavino
46029 Suzzara - Mantova - Italy

HEREBY STATES
under its own responsibility, that the equipment described below:
Description: METER
Model: K24
Serial number: refer to Lot Number shown on CE plate affixed to product/year of manufacture; refers to production shown on the CE plate affixed to the products in conformity with the legal provisions indicated in the directives :
- Electromagnetic Compatibility Directive 2004/108/EC

The documentation is at the disposal of the competent authority following motivated request at Piusi S.p.A. or following request sent to the email address: doc_tec@piusi.com
The person authorised to compile the technical file and draw up the declaration is Otto Varini as legal representative.

Suzzara, 01/01/2010
Otto Varini
legal representative.

GENERAL WARNINGS

Important precautions
To ensure operator safety and to protect the pump from potential damage, workers must be fully acquainted with this instruction manual before performing any operation.
The following symbols will be used throughout the manual to highlight safety information and precautions of particular importance.

ATTENTION
WARNING
NOTE
This symbol indicates safe working practices for operators and/or potentially exposed persons.
This symbol indicates that there is risk of damage to the equipment and/or its components.
This symbol indicates useful information.

Manual preservation
his manual should be complete and legible throughout. It should remain available to end users and specialist installation and maintenance technicians for consultation at any time.
All reproduction rights are reserved by Piusi S.p.A. The text cannot be reprinted without the written permission of Piusi S.p.A. THIS MANUAL IS THE PROPERTY OF Piusi S.p.A. ANY REPRODUCTION, EVEN PARTIAL, IS FORBIDDEN.

SAFETY INSTRUCTIONS

SAFETY WARNINGS

Mains - preliminary checks before installation
Maintenance control
For your safety, review the major warnings and cautions before operating your meter
ATTENTION
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 handling 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 solvents 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.

FIRST AID RULES

Contact with the product
In the event of problems developing following EYE/SKIN CONTACT, INHALATION or INGESTION of the treated product, please refer to the SAFETY DATA SHEET of the fluid handled.
Please refer to the safety data sheet for the product

NOTE
When operating the dispensing system and in particular during refuelling, do not smoke and do not use open flame.

SMOKING PROHIBITED
ATTENTION
When metering flammable liquids, observe precautions against fire or explosion
When handling hazardous liquids, always follow the liquid manufacturer's safety precautions.
Do not submerge the meter

GENERAL SAFETY RULES

Essential protective equipment
Wear protective equipment that is suited to the operations that need to be performed; resistant to cleaning products.
Personal protective equipment that must be worn
Wear the following personal protective equipment during handling and installation:
safety shoes;
close-fitting clothing;
protective gloves;
safety goggles;
instruction manual
Protective equipment
WARNING
If handling hazardous liquids, always follow the Liquid Manufacturer's Safety Precautions. Wear protective clothing such as goggles, gloves and respirator as instructed.
When metering flammable liquids, observe precautions against fire or explosion. Do not meter in the presence of any source of ignition including running or hot engines, lit cigarettes, or gas or electric heaters

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PACKAGING

FOREWORD
K24 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

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
WARNING
In the event that one or more of the components described below are missing from inside the package, please contact Piusi inc technical support.
Check that the data on the plate correspond to the desired specifications. In the event of any anomaly, contact the supplier immediately, indicating the nature of the defects. Do not use equipment which you suspect might not be safe.

BECOMING ACQUAINTED WITH K24

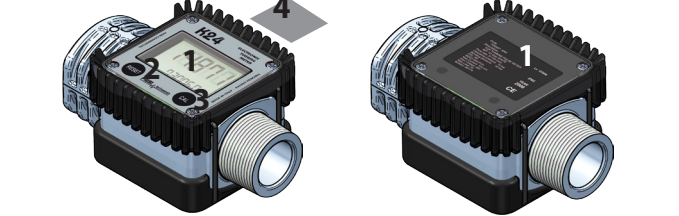
FOREWORD
Electronic digital meter featuring a turbine measurement system, designed for precise measuring of low viscosity fluids.
K24 is a bi-directional meter with LCD display and calibration buttons. The body is made of aluminum (conductive) and designed for high flow 120 l/min. (32 GPM).

K24 is available in 3 versions:
1 a METER - with LCD display and calibration buttons (SILVER LABEL)
b METER - with LCD display and calibration buttons (RED LABEL)
2 PULSER - single channel impulse, connectable with a remote display.

COMPATIBLE LIQUIDS

Turbine measurement system
The turbine is placed inside a hole through the body of K24, fitted with M1 threaded inlet and outlet.
The liquids compatible with K24 are at low viscosity, namely:
Diesel fuel
Kerosene
Gasoline
Gasoline blended alcohols max 15%
ATTENTION
DO NOT USE WITH SUNDRY LIQUIDS

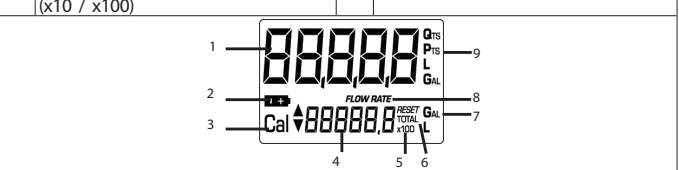
Main components K24 Meter	Main components K24 Pulser
1 LCD display	1 Plate with technical data
2 RESET key	
3 CAL key	
4 Technical data plate	



DISPLAY LCD

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

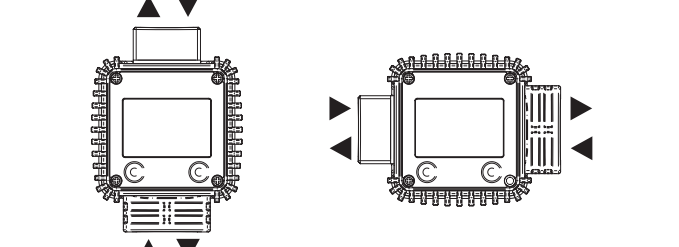
1	Partial register (5 figures with moving comma FROM 0.1 to 99999) indicating the volume dispensed since the reset button was last pressed	6	Indication of type of total, (TOTAL / Reset TOTAL);
2	Indication of battery charge	7	Indication of unit of measurement of Totals: L=Litres Gal=Gallons
3	Indication of calibration mode	8	Indication of Flow Rate 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)	9	Indication of unit of measurement of Partial: Qts=Quarts Pts=Pints L=Litres Gal=Gallons
5	Indication of total multiplication factor (x10 / x100)		



DISPLAY POSITIONING (METER VERSION ONLY)

FOREWORD
The square shape of the K24 body allows the card to be rotated in its housing, thus ensuring great versatility in positioning.
This allows easy display readings in any position. The card housing is closed by a plastic cover sealed through a rubber protection acting as a gasket as well. This can be easily removed unscrewing the 4 screws that fix both the cover and the card (1).
While fixing the K24 card, make sure the battery contact cable is not placed above the circular housing of the bulb.

ATTENTION
When metering flammable liquids, observe precautions against fire or explosion
When handling hazardous liquids, always follow the liquid manufacturer's safety precautions.
Do not submerge the meter



USERS' BUTTONS

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

Used together, the two keys permit entering configuration mode where the desired unit of measurement can be set.
LEGEND
CALIBRATE MEANS PERFORMING ACTIONS ON THE METER KEYS. BELOW IS THE LEGEND OF THE SYMBOLS USED TO DESCRIBE THE ACTIONS TO BE PERFORMED

SHORT PRES-SURE OF CAL KEY	LONG PRES-SURE OF CAL KEY	SHORT PRES-SURE OF RESET KEY	LONG PRES-SURE OF RESET KEY

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OPERATING MODES

The user can choose between two different operating modes:
The meter features a non-volatile memory for storing the dispensing data, even in the event of a complete power break for long periods. The measurement electronics and the LCD display are fitted in the top part of the K24 which remains isolated from the fluid-bath measurement chamber and sealed from the outside by means of a cover.
Normal Mode: Mode with display of Partial and Total dispensed quantities
Flow Rate Mode: Mode with display of Flow Rate, as well as Partial dispensed quantity.

- 1 - Normal Mode
- 2 - Flow rate Mode

INSTALLATION

FOREWORD
K24 features a threaded, perpendicular inlet and outlet (1" NPT or BSP male and female that can be combined together), it has been designed to be easily installed in any position; fixed in-line or mobile on a dispensing nozzle. In order to improve the life of the turbine, it is recommended to fit a strainer before the meter itself.
For installations on system, position meter so that the battery housing can be easily reached.

ATTENTION
Connections
To protect against the leakage, make sure all threads are sealed with two or three turns of thread tape or a sealing compound compatible with the liquid being metered.
Make sure the thread tape or sealing compound does not interfere with flow
Make sure there are no leaks in the connections.
To seal leaks, remove and inspect the meter and replace the thread tape or sealant. Refer to the Trouble-Shooting Section

DAILY USE

FOREWORD
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 K24. Occasionally the meter may need to be configured or calibrated. To do so, please refer to the relevant chapters.
Below are the two typical normal operation displays. One display page shows the partial and reset total registers. The other shows the partial and general total. Switchover from resettable total to general total display is automatic and tied to phases and times that are in factory set and cannot be changed.

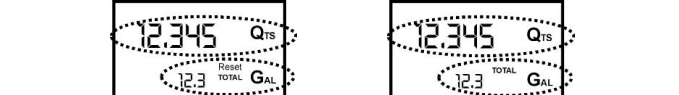


NOTA
6 digits are available for Totals, plus two icons x 10 / x100. The increment sequence is: 0.0 -> 99999.9 -> 999999 -> 10000 x 10 -> 999999 x 10 -> 100000 x 100 -> 999999 x 100

DISPENSING IN NORMAL MODE

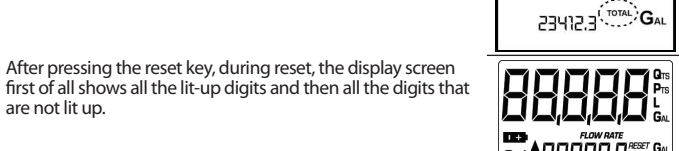
FOREWORD
Normal mode is the standard dispensing. While the count is made, the partial and resettable total are displayed at the same time (reset total).
WARNING
Should one of the keys be accidentally pressed during dispensing, this will have no effect.

STAND BY
A few seconds after dispensing has ended, on the lower register, the display switches from resettable total to general total; the word reset above the word total disappears, and the reset total is replaced by the general total.
This situation is called standby and remains stable until the user operates the K24 again.

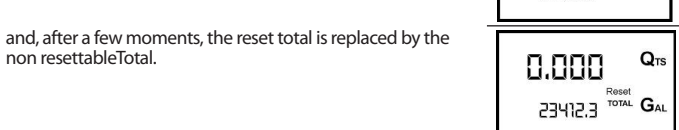


PARTIAL RESET (NORMAL MODE)

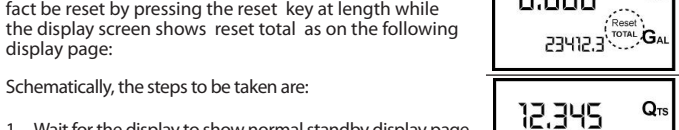
The partial register can be reset by pressing the reset key when the meter is in standby, meaning when the display screen shows the word "TOTAL".



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.



G.1.2. RESETTING THE RESET TOTAL
VALID JUST FOR METER VERSION WITH SILVER LABEL
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

5 The display screen again shows all the segments of the display followed by all the switched-off segments and finally shows the display page where the reset Reset Total is shown.

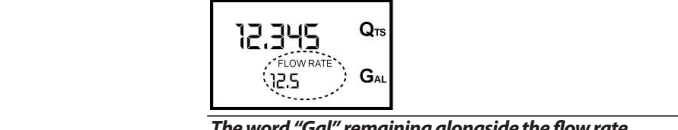
C.2. DISPENSING WITH FLOW RATE MODE DISPLAY
VALID JUST FOR METER VERSION WITH SILVER LABEL
It is possible to dispense fluids, displaying at the same time:
1 the dispensed partial
2 the Flow Rate in (Partial Unit / minute) as shown on the following display page:
Procedure for entering this mode:
1 wait for the Remote Display to go to Standby, meaning the display screen shows Total only
2 quickly press the CAL key.
3 Start dispensing

The flow rate is updated every 0.7 seconds. Consequently, the display could be relatively unstable at lower flow rates. The higher the flow rate, the more stable the displayed value.

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IMPORTANT

WARNING
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.



LONG RESET key keying
The word "CAL" remaining alongside the flow rate refers to the register of the Totals (Reset or NON Reset) which are again displayed when exiting from the flow rate reading mode.
The Meter shows "CAL" and the partial at zero. The Meter is ready to perform in-field calibration.
Without pressing any key, start dispensing into the sample container.
Dispensing can be interrupted and started again at will. Continue dispensing until the level of the fluid in the sample container has reached the graduated area. There is no need to reach a preset quantity.

To return to "Normal" mode, press the CAL key again. If one of the two keys RESET or CAL is accidentally pressed during the count, this will have no effect.
IMPORTANT
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.

G.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

H. 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 K24 is required to operate.

H1. DEFINITIONS
CALIBRATION FACTOR OR "K FACTOR"
Factory-set default factor. It is equal to 1,000. This calibration factor is used to most precision in the following operating conditions:
Fluid: diesel
Temperature: 20°C
Flow rate: 50 lit/min (13 GPM)
Even after any changes have been made by the user, the factory k factor can be restored by means of a simple procedure.
Customized calibration factor, meaning modified by calibration.

H2. 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
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

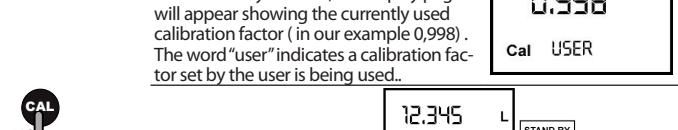
In calibration mode, the partial and total dispensed quantities indicated on the display screen take on different meanings according to the calibration procedure phase. In calibration mode, the K24 cannot be used for normal dispensing operations. In "Calibration" mode, the totals are not increased.

ATTENTION
The K24 features a non-volatile memory that keeps all the data concerning calibration and total dispensed quantity stored for an indefinite time, even in the case of a long power break; after changing the batteries, calibration need not be repeated.

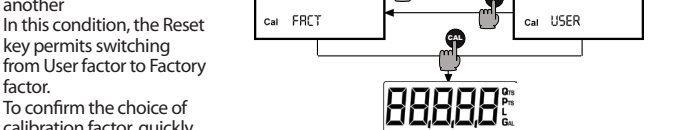
H.2.1. DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR.
By pressing the CAL key while the application is in Standby, the display page appears showing the current calibration factor used. If no calibration has ever been performed, or the factory setting has been restored after previous calibrations, the following display page will appear:
The word "Fact" abbreviation for "factory" shows that the factory calibration factor is being used.
If, on the other hand, calibrations have been made by the user, the display page will appear showing the currently used calibration factor (in our example 0.998).
The word "user" indicates a calibration factor set by the user is being used.



Example:
Error percentage found: E% = 0.9%
CURRENT calibration factor: 1.000
New USER K FACTOR: 1.000 * (100 - (0.9)/100) = 1.000 * (100 + 0.9)/100 = 1.009
If the Meter indicates less than the real dispensed value (negative error) the new calibration factor must be higher than the old one as shown in the example. The opposite applies if the Meter shows more than the real dispensed value (positive error).



The flow chart alongside shows the switchover logic from one display page to another. In this condition, the Reset key permits switching from User factor to Factory factor.
To confirm the choice of calibration factor, quickly press CAL while "User" or "Fact" are displayed.
After the restart cycle, the K24 uses the calibration factor that has just been confirmed



ATTENTION
When the Factory Factor is confirmed, the old User factor is deleted from the memory

H.2.2. IN FIELD CALIBRATION
FOREWORD
This procedure calls for the fluid to be dispensed into a graduated sample container in real operating conditions (flow rate, viscosity, etc.) requiring maximum precision.
ATTENTION
For correct K24 calibration, it is most important to:

1 When the Factory Factor is confirmed, the old User factor is deleted from the memory
2 use a precise Sample Container with a capacity of not less than 5 litres, featuring an accurate graduated indicator.
3 ensure calibration dispensing is done at a constant flow rate equivalent to that of normal use, until the container is full;
4 Not reduce the flow rate to reach the graduated area of the container during the final dispensing stage (the correct method during the final stages of sample container filling consists in making short top-ups at normal operation flow rate);
5 after dispensing, wait a few minutes to make sure any air bubbles are eliminated from the sample container; the Real value at the end of this stage, during which the level in the container could drop.
6 Carefully follow the procedure indicated below.

H.2.2.1. IN-FIELD CALIBRATION PROCEDURE
ACTION
1 NONE
Meter in Standby.
2 LONG CAL key keying
The Meter enters 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 being used.
3 LONG RESET key keying
The Meter shows "CAL" and the partial at zero. The Meter is ready to perform in-field calibration.
4 DISPENSING INTO SAMPLE CONTAINER
Without pressing any key, start dispensing into the sample container.
Dispensing can be interrupted and started again at will. Continue dispensing until the level of the fluid in the sample container has reached the graduated area. There is no need to reach a preset quantity.
5 SHORT RESET key keying
The arrow changes direction. The operation can be repeated to alternate the direction of the arrow.
6 SHORT/LONG CAL key keying
The indicated value changes in the direction indicated by the arrow.
7 LONG RESET key keying
The Meter is informed that the calibration procedure is finished. Before performing this operation, make sure the INDICATED value is that required.
8 NO OPERATION
At the end of the calculation, the new USER K FACTOR is shown for a few seconds, after which the restart cycle is repeated to finally achieve standby condition.
9 SHORT RESET key keying
The Meter stores the new work calibration factor and is ready to begin dispensing using the USER K FACTOR that has just been changed.

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.

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IN-FIELD CALIBRATION PROCEDURE

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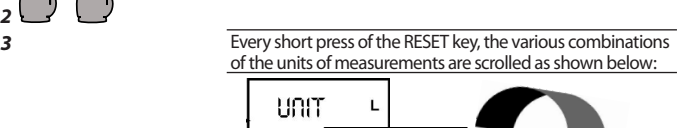
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METER CONFIGURATION

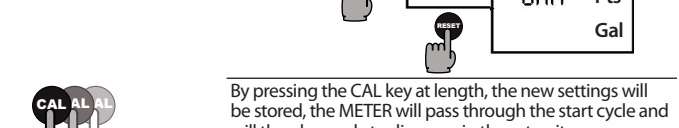
The METER feature a menu with which the user can select the main measurement unit, Quarts (Qts), Pints (Pts), Litres (L), Gallons (Gal);
The combination of the unit of measurement of the Partial register and that of the Totals is predefined according to the following table:

Combination no.	Unit of Measurement Partial Register	Unit of Measurement Totals Register
1	Litres (L)	Litres (L)
2	Gallons (Gal)	Gallons (Gal)
3	Quarts (Qts)	Gallons (Gal)
4	Pints (Pts)	Gallons (Gal)

To choose between the 4 available combinations:
1 Wait for the METER to go to Standby.
2 Then press the CAL and RESET keys together. Keep these pressed until the word "UNIT" appears on the screen together with the unit of measurement set at that time (in this example Litres / Litres).
3



Every short press of the RESET key, the various combinations of the units of measurements are scrolled as shown below:



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.
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