

INDEX
1 DECLARATION OF CONFORMITY
2 GENERAL WARNINGS
3 SAFETY INSTRUCTIONS
4 KNOWLEDGE K200
5 HOW K200 METER WORKS
6 OPERATING MODES
7 INSTALLATION
8 MAINTENANCE
9 TECHNICAL DATA
10 MALFUNCTIONS
11 DISPOSAL
12 EXPLODED VIEWS AND OVERALL DIMENSIONS

1 DECLARATION OF CONFORMITY

The undersigned: PIUSI S.p.A. Via Pacinotti 16/A z.l. Rangovino 46029 Suzzara - (MN) - Italy
HEREBY STATES under its own responsibility, that the equipment described below: Description: GREASE METER Model: K200 Serial number: refer to Lot Number shown on CE label affixed to product/Year of manufacture: refer to the year of production shown on the CE label affixed to the products in conformity with the legal provisions indicated in the directives.

EU Declaration of Conformity
The declaration is at the disposal of the competent authority upon the motivated request at Piusi S.p.A. or following request sent to the email address: doc.tec@piusi.com The person authorized to compile the technical file and draw up the declaration is Otto Varini as legal representative.

Suzzara, 20/04/2016
Otto Varini legal representative.

2 GENERAL WARNINGS

Important precautions
Symbols used in the manual
Manual preservation
Reproduction rights
This manual belongs to Piusi S.p.A., which is the sole proprietor of all rights indicated by applicable laws, including by way of example, laws on copyrights. All the rights deriving from such laws are reserved to Piusi S.p.A.; the reproduction, including partial, of this manual, its publication, change, transcription and notification to the public, transmission, including using remote communication media, placing at disposal of the public, distribution, marketing in any form, translation and/or processing, loan and any other activity reserved by the law to Piusi S.p.A., are prohibited.

3 SAFETY INSTRUCTIONS

3.1 SAFETY WARNINGS
ATTENTION: You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.
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.
To help prevent fire and explosion:
Use equipment only in well-ventilated areas.
Eliminate all ignition sources such as cigarettes and portable lamps.
Keep work area free of debris, including rags 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 leave the work area while equipment is energized or under pressure. Turn off all equipment when equipment is not in use.
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 kick or over bend hoses or use hoses to pull equipment.
Keep children and animals away from work area.
Comply with all applicable safety regulations.
Toxic Fluid or Fumes Hazard
Read MSDS 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

Please refer to the safety data sheet for the product.

3.3 GENERAL SAFETY RULES

Wear protective equipment that is - suited to the operations that need to be performed; - resistant to cleaning products.
At the end of the process, a display page is first of all shown with the reset PULSER VERSION
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 to be come

PERSONAL PROTECTIVE EQUIPMENT THAT MUST BE WORN
Safety shoes;
Close-fitting clothing;
Protective gloves;
Safety goggles;
Instruction manual.
OTHER DEVICES

3.4 PACKAGING

K200 comes packed in a cardboard box with the 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

To open the packaging, use a pair of scissors or a cutter, being careful not to damage the dispensing system or its components.
In the event that one or more of the components described below are missing from inside the package, please contact Piusi 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.

4 KNOWLEDGE K200

K200 is an electronic meter based on oval gears measuring system, developed for an easy and exact measurement. K200 is studied in particular to be directly installed on lines of distribution of fluid. An electronic card with microprocessor permits control of the display and calibration of the meter. K200 features a non-volatile memory for storing the measuring data of the totals, even in the event of a complete power break for long periods.

K200 is available in 2 versions:

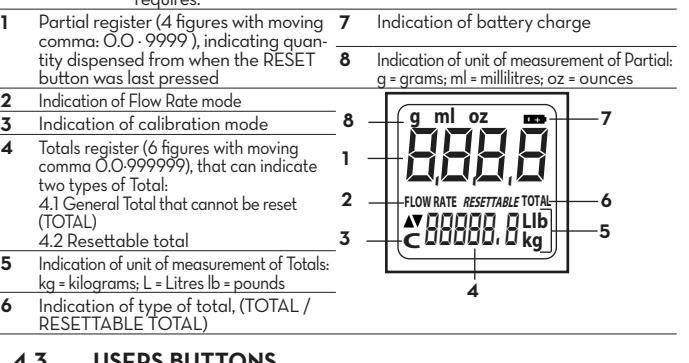
- 1 METER - with LCD display and calibration buttons
2 PULSER - single-channel impulse, connectable with a remote display.

4.1 COMPATIBLE LIQUIDS

Oval gear in acetal resin for measuring various viscosity fluids. The fluids compatible with K200 are the following:
DIESEL FUEL, RAPS OIL, OIL AND ALL THE LUBRICATING GREASES INCLUDED BETWEEN THE "000" POSITION AND THE POSITION "2" OF THE NLGI CONSISTENCY SCALE.
Main components
1-Insert battery
2-Display LCD
3-RESET button
4-CAL button
5-Measurement chamber
The measurement electronics and the LCD display are fitted in the top part of the meter isolated from the fluid; both measurement chamber and sealed from the outside by means of a cover.

4.2 DISPLAY LCD (ONLY METER VERSION)

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



4.3 USERS BUTTONS

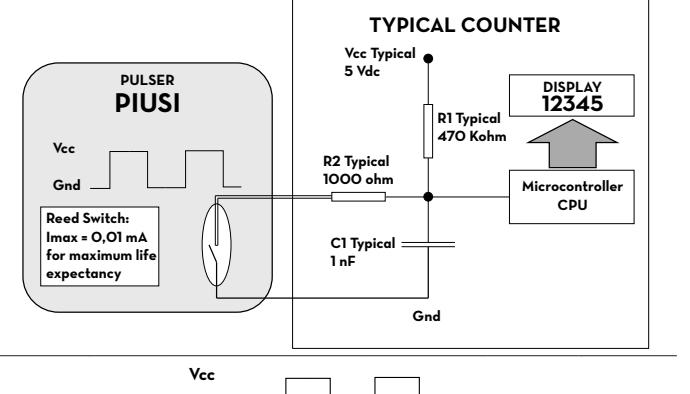
The METER features two buttons (RESET and CAL) which individually perform two main functions and, together, other secondary functions.
- for the RESET key, resetting the partial register and Reset Total
- for the CAL key, entering instrument calibration mode
Used together, the two keys permit entering configuration mode where the desired unit of measurement can be set.
CALIBRATE MEANS PERFORMING ACTIONS ON THE METER KEYS. BELOW IS THE LEGEND OF THE SYMBOLS USED TO DESCRIBE THE ACTIONS TO BE PERFORMED.



5 HOW K200 METER WORKS

METER VERSION
K200 METER's metering system is based on a measuring chamber that contains two oval gears that, when rotating, generate electric impulses which are detected and processed by a microprocessor.
The gears are made to turn by the fluid flowing through the chamber. The volume of fluid that flows through is calculated by the number of gear rotations, given that each rotation corresponds to an identical amount of fluid. The magnetic coupling, between the magnets installed on the gears and a magnetic switch outside the measurement chamber, ensures measurement chamber sealing and ensures transmission of the pulses generated by gear rotation to the electronic board microprocessor. By applying an appropriate calibration factor, the microprocessor transforms the impulses into the amount of fluid (in weight) that has been dispensed, and displays the result on the LCD display.
All K200 METER models are factory set with a calibration factor called FACTORY K FACTOR equal to 1000.
For best K200 METER performance - adapting this to the intrinsic characteristics of the fluid to be measured - the instrument can be "calibrated". Calibration can be restored to factory settings at any time (see "Calibrating").
PULSER VERSION
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 to be come

The pulser does not need any independent electric power supply, as it is directly powered by the reed connection. The issued pulse type is represented by a square wave generated by the volt-ohm variation - see the following diagram:



Duty Cycle: THigh / (THigh + TLow) %

Table with columns: MODEL, FLOW RATE FIELD, PULSER Pulse / liter, Pulse / Gal, Frequency Signal Max, Square Wave Duty Cycle. Row for K200: 01-2.8, 0.03-0.6, 1400, 5306, 65 Hz, 20-80%.

The calibration of the instrument is made by means of the external receiver. The PULSER version must be connected by cables and respecting the following characteristics:
Vmax 26 V - Ac / Dc
Imax 100 mA

6 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 K200 which remains isolated from the fluid-both measurement chamber and sealed from the outside by means of a cover.
Mode with display of Partial and Total dispensed quantities.

- 1-NORMAL MODE
2-FLOW RATE MODE
Mode with display of Flow Rate, as well as Partial dispensed quantity.

7 INSTALLATION

K200 can be installed directly on the tube for fluid delivery. The body is provided with two female threads 1/8" (BSP or NPT according to the versions) on which to install the tube for fluid.

For installations on system, position K200 so that the battery housing can be easily reached.
Always make sure that the thread on the hose and on all attachments applied are compatible with the thread on the chosen K200 model. To avoid damaging the fluid handle, always fasten every component tightly using the appropriate tools. Make sure the fluid is free from impurities, foreign matter in the fluid can obstruct the measuring gears. For the fluid handle to function properly, air should be removed from the fluid supply line, ensuring a smooth and regular fluid flow.

8 DAILY USE

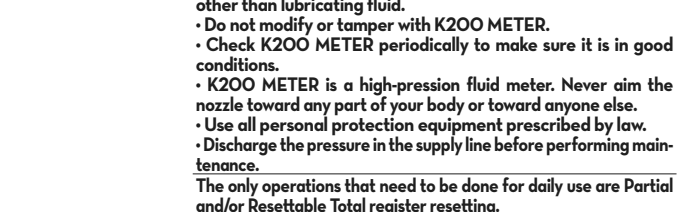
K200 is supplied ready to use. No commissioning operations are required, except for long storage periods.

ONCE THE K200 PULSER HAS BEEN CORRECTLY CONNECTED TO THE IMPULSE RECEIVER, THERE IS NO NEED TO SWITCH IT ON OR OFF.

K200 METER is designed for professional use and should be operated only by authorized personnel.
Do not use K200 METER in conditions exceeding the limits described in the "SPECIFICATIONS" section or with fluids other than lubricating fluid.
Do not modify or tamper with K200 METER.
Check K200 METER periodically to make sure it is in good conditions.
K200 METER is a high-pressure fluid meter. Never aim the nozzle toward any part of your body or toward anyone else.
Use all personal protective equipment prescribed by law.
Discharge the pressure in the supply line before performing maintenance.

The only operations that need to be done for daily use are Partial and Resetable Total register resetting.

Below are the two typical normal operation displays. One display page shows the Partial and Resetable Total registers. The other shows the partial and general Total. Switchover from Resetable Total to general Total display is automatic and tied to phases and times that are factory set and cannot be changed by the user.



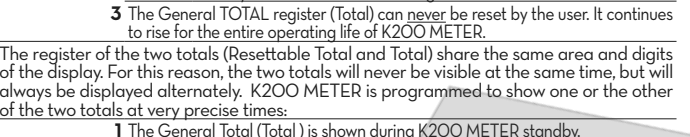
1 The Partial register positioned in the top part of the display indicates the quantity dispensed since the RESET key was last pressed.
2 The Resetable Total register, positioned in the lower part of the display, indicates the quantity dispensed since the last Resetable Total resetting. The Resetable Total cannot be reset until the Partial has been reset, while vice versa, the Partial can always be reset without resetting the Resetable Total.
3 The General TOTAL register (Total) can appear by reset by the user. It continues to rise for the entire operating life of K200 METER.

The register of the two totals (Resetable Total and Total) show 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. K200 METER is programmed to show one or the other of the two totals at very precise times:
1 The General Total (Total) is shown during K200 METER standby.
2 The Resetable Total is shown.
3 At the end of a Partial reset for a certain time (a few seconds).
4 During the entire dispensing stage. For a few seconds after the end of dispensing. Once this short time has expired K200 METER switches to standby and lower register display switches to General Total.

8.1 DISPENSING IN NORMAL MODE

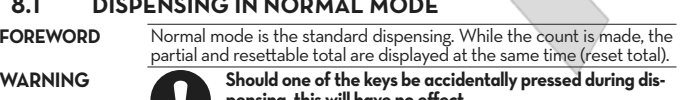
Normal mode is the standard dispensing. While the count is made, the partial and resetable total are displayed at the same time (reset total).

Should one of the keys be accidentally pressed during dispensing, this will have no effect.



8.1.1 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, the display screen shows the word "TOTAL".
After a few moments, the reset total is replaced by the non resetable total.



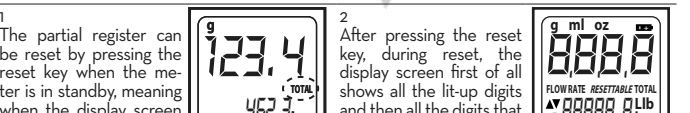
8.1.2 RESETTING THE RESET TOTAL

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 reset 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.



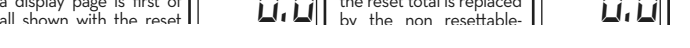
8.2 DISPENSING WITH FLOW RATE MODE DISPLAY

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:
Procedure for entering this mode:
1 wait for the meter 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. 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.



8.2.1 PARTIAL RESET (FLOW RATE MODE)

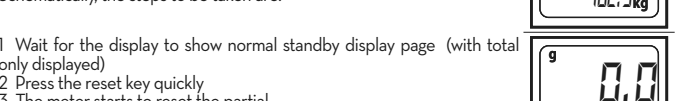
To reset the Partial Register, finish dispensing and wait for the meter to show a Flow Rate of 0,0 as indicated in the illustration then quickly press RESET.



9.2.2 IN FIELD CALIBRATION PROCEDURE

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 when using 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; only read 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.

9.2.1 IN-FIELD CALIBRATION PROCEDURE
ACTION 1 NONE K200 METER in Stand-by
2 LONG CAL KEY KEYING K200 METER enters calibration mode, and the display shows "C" and the current calibration factor instead of the partial. The words "Fact" and "USER" indicate which of the two factors (factory or user) is currently in use.
3 LONG RESET KEY KEYING Important: This factor is that which the instrument also uses for field calibration measurement operations.
4 DISPENSING INTO SAMPLE CONTAINER Without pressing any key start dispensing into the sample container.
5 SHORT RESETE KEY KEYING Lets you choose the direction of the arrow in the lower left corner of the display. The up arrow increases the factor value, and the down arrow reduces it. 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 one unit for every short CAL key keying -continually if the CAL key is kept pressed. The speed increase rises by keeping the key pressed. If the desired value is exceeded, repeat the operations from point (6).
7 LONG CAL KEY KEYING K200 METER is informed that the calibration procedure is finished. Before doing this, make sure the DISPLAYED factor is the ACTUAL factor (see previous point 3).
8 K200 METER calculates the new USER K FACTOR; this calculation could require a few seconds, depending on the correction to be made.
9 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.
10 NO OPERATION K200 METER stores the new calibration factor and is ready for dispensing, applying the newly defined USER K FACTOR.

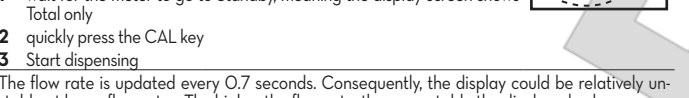


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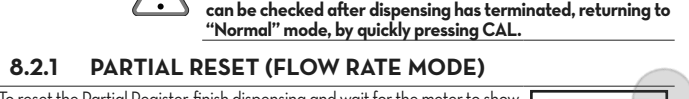
9.2.2.2 DIRECT MODIFICATION OF K FACTOR
If normally K200 operation shows a mean percentage error, this can be corrected by applying to the current used calibration factor a correction of the same percentage. In this case, the percentage correction of the USER K FACTOR must be calculated by the operator in the following way:
New Cal. Factor = Old Cal. Factor \* (100 - Error / 100)
EXAMPLE:
Error percentage found: Error = 0,9 %
CURRENT calibration factor: 1000
New USER K FACTOR: 1000 \* (100 - (-0,9)/100) = 1000 \* (100 + 0,9)/100 = 1009
If K200 indicates less than the real dispensed value (negative error) the new calibration factor must be higher than the one as shown in the example. The opposite applies if the Meter shows more than the real dispensed value (positive error).



9.2.3 DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR
By pressing the CAL key while the appliance is in Stand-by, the display page appears showing the current calibration factor used. Two cases can occur:
A) 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.
B) 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.



In this situation, the Reset button passes from the User-defined factor to the Factory-set factor.
In this condition, the Reset key permits switching from the 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 K200 uses the calibration factor that has just been confirmed.



9 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 K200 is required to operate.

9.1 DEFINITIONS
Calibration: 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 1000. This calibration factor ensures most precision in the following operating conditions:
Fluid: Grease NLGI grade 1
Temperature: 20°C
Flow rate: 0.1-2.5 kg/min - 0.1-2.8 L/min - 0.2-5.5 lb/min
Even after any changes have been made by the user, the factory k factor can be restored by means of simple procedure:
Customized calibration factor, meaning modified by calibration.

9.2 CALIBRATION MODE
WHY CALL-BRATE? 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.

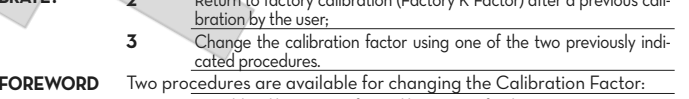
FOREWORD Two procedures are available for changing the Calibration Factor:
1 In-Field Calibration, performed by means of a dispensing operation.
2 Direct Calibration, performed by directly changing the calibration factor.

In calibration mode, the partial and total dispensed quantities indicated on the display screen take on different meanings according to the calibration procedure used. In calibration mode, the K200 cannot be used for normal dispensing operations. In "Calibration" mode, the totals are not increased.

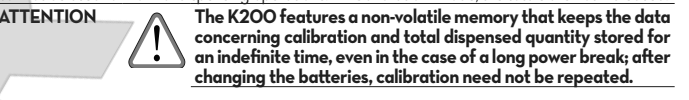
ATTENTION The K200 features a non-volatile memory that keeps the data concerning calibration and total dispensed quantity stored for an indefinite time, even in the case of a long power break after changing the batteries, calibration need not be repeated.

9.2.1 DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR

By pressing the CAL key while the appliance is in Stand-by, the display page appears showing the current calibration factor used. Two cases can occur:
A) 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.
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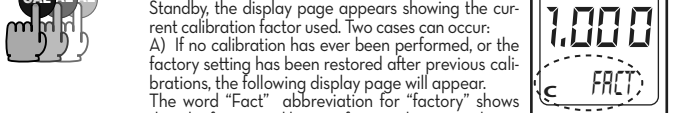


In this situation, the Reset button passes from the User-defined factor to the Factory-set factor.
In this condition, the Reset key permits switching from the User factor to Factory factor. To confirm the choice of calibration factor, quickly press CAL while "User" or "Fact" are displayed.
After the restart cycle, the K200 uses the calibration factor that has just been confirmed.



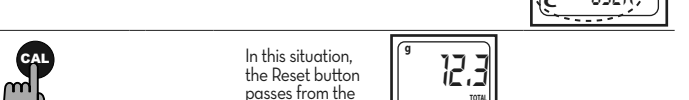
9.2.2 IN FIELD CALIBRATION PROCEDURE

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 when using 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; only read 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.



9.2.2.1 IN-FIELD CALIBRATION PROCEDURE

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2 LONG CAL KEY KEYING K200 METER enters calibration mode, and the display shows "C" and the current calibration factor instead of the partial. The words "Fact" and "USER" indicate which of the two factors (factory or user) is currently in use.
3 LONG RESET KEY KEYING Important: This factor is that which the instrument also uses for field calibration measurement operations.
4 DISPENSING INTO SAMPLE CONTAINER Without pressing any key start dispensing into the sample container.
5 SHORT RESETE KEY KEYING Lets you choose the direction of the arrow in the lower left corner of the display. The up arrow increases the factor value, and the down arrow reduces it. 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 one unit for every short CAL key keying -continually if the CAL key is kept pressed. The speed increase rises by keeping the key pressed. If the desired value is exceeded, repeat the operations from point (6).
7 LONG CAL KEY KEYING K200 METER is informed that the calibration procedure is finished. Before doing this, make sure the DISPLAYED factor is the ACTUAL factor (see previous point 3).
8 K200 METER calculates the new USER K FACTOR; this calculation could require a few seconds, depending on the correction to be made.
9 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.
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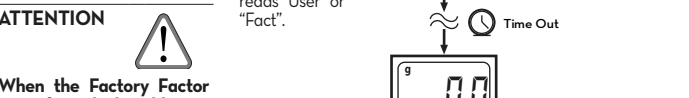
9.2.2.2 DIRECT MODIFICATION OF K FACTOR

If normally K200 operation shows a mean percentage error, this can be corrected by applying to the current used calibration factor a correction of the same percentage. In this case, the percentage correction of the USER K FACTOR must be calculated by the operator in the following way:
New Cal. Factor = Old Cal. Factor \* (100 - Error / 100)
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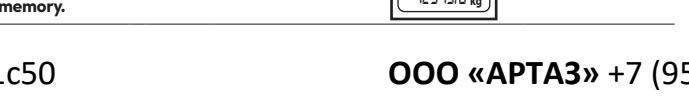


9.2.3 DISPLAY OF CURRENT CALIBRATION FACTOR AND RESTORING FACTORY FACTOR

By pressing the CAL key while the appliance is in Stand-by, the display page appears showing the current calibration factor used. Two cases can occur:
A) 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.
B) 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.



In this situation, the Reset button passes from the User-defined factor to the Factory-set factor.
In this condition, the Reset key permits switching from the 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 K200 uses the calibration factor that has just been confirmed.

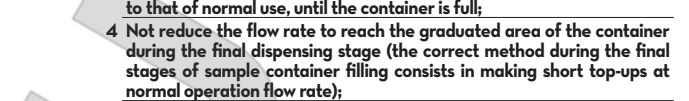


10 MAINTENANCE

FOREWORD K200 METER has been designed to require a minimum amount of maintenance. The only maintenance jobs required are:
Battery change - necessary when the batteries have run down;
Cleaning of the measuring chamber, possibly requiring for the particular nature of the fats.
Maintenance should be performed only by authorised persons who have read and understood this manual. In order to guarantee the product's functionality, always choose original spare parts when replacing damaged components.
K200 should be installed in a position allowing the batteries to be replaced without removing it from the system.
Use 2x1.5 V alkaline batteries size MN1500 LR1N.

WARNING Maintenance should be performed only by authorised persons who have read and understood this manual. In order to guarantee the product's functionality, always choose original spare parts when replacing damaged components.
K200 should be installed in a position allowing the batteries to be replaced without removing it from the system.
Use 2x1.5 V alkaline batteries size MN1500 LR1N.

BATTERY REPLACEMENT
The meter features two low-battery alarm levels:
1 When the battery charge falls below the first level on the LCD, the fixed battery symbol appears. In this condition, K200 continues to operate correctly, but the fixed icon warns the user that it is ADVISABLE to change the batteries.
2 If K200 METER 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 it is the only one to remain visible on the LCD.



When replacing the batteries, refer to the figure opposite and to the spare parts list, and proceed as follows:
1 Press RESET to update all the totals;
2 Unscrew the battery cap (pos.6);
3 Remove the old batteries;
4 Place the new batteries in the same position as the old ones, making sure the positive pole is positioned as indicated alongside;
5 Re-tighten the battery cap, making sure the seal and tapered spring are correctly positioned;
6 K200 METER will switch on automatically and normal operation can be resumed.

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

10.1 CLEANING

It is rarely necessary to clean the measuring chamber; cleaning is quick and easy and you don't need to disconnect K200 METER from the supply line.
Before opening the measuring chamber, make sure the supply line is not pressurized.

To clean the chamber, proceed as follows (with reference to the spare parts list positions):
1 Unscrew the four screws that hold the cover (pos.1) and remove the respective covers;
2 Remove the cover and the cover gasket;
3 Remove the cover and the cover gasket;
4 Clean where necessary. For this operation, use a brush or pointed object such as a small screwdriver. Be careful not to damage the body or the gears;
5 To reassemble the instrument follow the same steps in reverse order, and refer to the figure above to put the gears back correctly.

ATTENTION Only one gear is equipped with magnets. The gear with the magnets must be installed shown in the figure above, with the magnets towards K200 METER's body. The other gear (without magnets) must be installed with its major axis at right angles to the first gear. Make sure the gears are turning freely before closing the cover. TIGHTENING TORQUE: 10 Nm

11 MALFUNCTIONS
PROBLEM POSSIBLE CAUSE REMEDIAL ACTION
LCD-NO INDICATIONS Battery discharged Check battery and battery contact
NOT ENOUGH MEASUREMENT PRECISION Meter loses calibration Check the calibration factor
Pump sucks fluid and air Put the pump in a proper position
Gears blocked The pump sucks fluid and air Disposition properly the pump-ber
REDUCED OR ZERO FLOW RATE Gears blocked Clean the measurement chamber
K200 METER DOES NOT COUNT, BUT THE FLOW RATE IS CORRECT Incorrect installation of gears after cleaning Repeat the reassembly procedure
Possible electronic board problems Contact your dealer

12 DISPOSAL

Foreword If the system needs to be disposed, the parts which make it up must be delivered to companies that specialize in the recycling and disposal of industrial waste and, in particular:
The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.
Metal parts Display: Metal parts, whether paint-finished or in stainless steel, can be consigned to scrap metal collectors.
These must be disposed of by companies that specialize in the disposal of hazardous waste, in accordance with the indications of directive 2012/19



INDICE
1 DICHIARAZIONE CE DI CONFORMITA'
2 AVVERTENZE GENERALI
3 ISTRUZIONI DI SICUREZZA
4 CONTENUTO DELL'IMBALLLO
5 FUNZIONAMENTO
6 MODALITA' DI UTILIZZO
7 INSTALLAZIONE
8 USO GIORNALIERO
9 CALIBRAZIONE
10 MANUTENZIONE
11 PULIZIA
12 SOSTITUZIONE BATTERIE
13 DATI TECNICI
14 VISTE ESPLOSE ED INGOMBRI

1 DICHIARAZIONE CE DI CONFORMITA'

La sottoscritta PIUSI S.p.A. Via Pavesotti 16/A - z. l. Rangovino 46029 Suzzara - Mantova - Italia

DICHIARA sotto la propria responsabilita, che il dispositivo descritto in appresso: Descrizione: CONTAGRASSO Modello: K200

Matricola: riferirsi al Lot Number riportato sulla targh CA apposta sul prodotto Anno di costruzione: riferirsi all'anno di produzione riportato sulla targh CA apposta sul prodotto.

Conferma alle disposizioni legislative che traspongono le direttive: "Direttiva Compatibilita Elettromagnetica 2014/50/UE"

Il presente manuale e di proprieta di Piusi S.p.A. La quale e esclusa sia proprietaria di tutti i diritti previsti dalle leggi applicabili, ivi compresa a titolo esemplificativo le norme in materia di diritto d'autore.

Questo simbolo indica che esiste la possibilita di arrecare danni alle apparecchiature e/o ai loro componenti.

Questo simbolo segnala informazioni utili.

Il presente manuale deve essere integrato e leggibile in ogni sua parte, l'utente finale ed i tecnici specializzati autorizzati all'installazione e alla manutenzione, devono avere la possibilita di consultarlo in ogni momento.

Questo simbolo indica che esiste la possibilita di arrecare danni alle apparecchiature e/o ai loro componenti.

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3.2 NORME DI PRONTO SOCCORSO
NOTA
NON FUMARE
3.3 NORME GENERALI DI SICUREZZA
CARATTERISTICHE ESSENZIALI DELL'EQUIPAGGIAMENTO DI PROTEZIONE
DISPOSITIVI DI PROTEZIONE INDIVIDUALE DA INDOSSARE
ALTRI DISPOSITIVI
3.4 IMBALLLO
3.5 CONTENUTO DELL'IMBALLLO
PREMESSA
NOTA
ATTENZIONE
4.1 LIQUIDI COMPATIBILI
SISTEMA DI MISURA
4.2 DISPLAY LCD (SOLO VERSIONE METER)
4.3 PULSANTI UTENTE - LEGENDA
PRESSIONE BREVE DEL TASTO CAL
PRESSIONE BREVE DEL TASTO RESET
PRESSIONE BREVE DEL TASTO CAL
PRESSIONE BREVE DEL TASTO RESET

3.2 NORME DI PRONTO SOCCORSO

Per informazioni specifiche, fare riferimento alle schede di sicurezza del prodotto.

NON FUMARE Durante l'operazione di erogazione, non fumare e non usare fiamme libere.

3.3 NORME GENERALI DI SICUREZZA Indossare un equipaggiamento di protezione che sia idoneo alle operazioni da effettuare;

Scarpe antinfortunistiche; Indumenti antilattini al corpo; Guanti di protezione; Occhiali di sicurezza.

3.4 IMBALLLO K200 e fornito imballato in scatola, con etichetta su cui compaiono i seguenti dati:

1- contenuto della confezione 2- peso del contenuto 3- descrizione del prodotto

3.5 CONTENUTO DELL'IMBALLLO Per aprire l'imballlo, utilizzare delle forbici o un tagliere.

NOTA Nel caso in cui uno o più componenti di seguito descritti non sono presenti all'interno della confezione, contattare il servizio di assistenza tecnica Piusi S.p.A.

ATTENZIONE Verificare che i dati di tarca corrispondano a quelli desiderati. Per qualsiasi anomalia, contattare immediatamente il fornitore, segnalando la natura dei difetti e, in caso di dubbio sulla sicurezza dell'apparecchiatura, non utilizzarla.

4 CONOSCERE K200 K200 e un contatore elettronico digitale provvisto di un sistema di misura ad ingranaggi ovali, progettato per una facile e precisa misura del liquido.

4.1 LIQUIDI COMPATIBILI Ad ingranaggi ovali in resina acetalica, si prestano alla misurazione di liquidi a viscosita variabile. I liquidi compatibili con il K200 SONO i seguenti:

4.2 DISPLAY LCD (SOLO VERSIONE METER) L'LCD del contatore e provvisto di due registri numerici e di diverse indicazioni che vengono visualizzate dall'utente: solamente se la funzione del momento lo richiede.

1 Registro del Parziale (4 cifre a virgola mobile: 0,0-9999), che indica la quantita erogata dall'ultima volta che e stato premuto il pulsante di RESET

2 Indicazione della modalita "Portata Istantanea" (Flow Rate)

3 Indicazione della modalita di calibrazione

4,1 Totale Generale non azzerabile (TOTAL)

4,2 Totale Azzerabile (RESETTABLE TOTAL)

5 Indicazione dell'unita di misura dei Totali Kg - Kilogrammi, L - Litri, lb - libbre

6 Indicazione del tipo di totale, (TOTAL/RESETTABLE TOTAL)

7 Indicazione dello stato di carica delle batterie

8 Indicazione dell'unita di misura del Parziale: g - grammi; ml - millilitri; oz - once

9 Indicazione della modalita di calibrazione

10 Indicazione del tipo di totale, (TOTAL/RESETTABLE TOTAL)

5 FUNZIONAMENTO
VERSIONE METER
PREMESSA
AVVERTENZA
STAND BY
5.1 AZZERAMENTO DEL PARZIALE
5.2 AZZERAMENTO DEL RESET TOTAL (TOTALE AZZERABILE)
5.3 EROGAZIONE CON VISUALIZZAZIONE PORTATA Istantanea (FLOW RATE MODE)
5.4 CALIBRAZIONE
5.5 CONTENUTO DELL'IMBALLLO
5.6 MODALITA' DI UTILIZZO
5.7 INSTALLAZIONE
5.8 USO GIORNALIERO
5.9 CALIBRAZIONE
5.10 MANUTENZIONE
5.11 PULIZIA
5.12 SOSTITUZIONE BATTERIE
5.13 DATI TECNICI
5.14 VISTE ESPLOSE ED INGOMBRI

5 FUNZIONAMENTO

VERSIONE METER K200 METER contiene una camera di misura nella quale sono alloggiati gli ingranaggi ovali che ruotando, generano impulsi elettrici che vengono processati dalla scheda elettronica a microprocessore.

PREMESSA Normal mode e l'erogazione standard. Durante il conteggio, vengono visualizzati contemporaneamente il "parziale erogato" ed il "totale azzerabile" (reset total).

AVVERTENZA Premere accidentalmente i tasti durante l'erogazione, non comporta alcun effetto.

STAND BY Ad alcuni secondi dal termine dell'erogazione, sul registro inferiore la visualizzazione passa dal "TOTALE AZZERABILE" al "TOTALE GENERALE".

5.1 AZZERAMENTO DEL PARZIALE 1 Il Registro del Parziale pu essere azzerato premendo il tasto RESET quando il contatore e in Stand-by, ovvero quando il display visualizza la scritta "TOTAL".

5.2 AZZERAMENTO DEL RESET TOTAL (TOTALE AZZERABILE) L'operazione di azzeramento del Reset Total e effettuabile solo successivamente ad una operazione di azzeramento del Registro del Parziale.

5.3 EROGAZIONE CON VISUALIZZAZIONE PORTATA Istantanea (FLOW RATE MODE) La calibrazione dello strumento viene effettuata tramite il ricevitore esterno. Il pulser non ha bisogno di alimentazione elettrica indipendente in quanto viene alimentato direttamente dal collegamento con il ricevitore.

5.4 CALIBRAZIONE Il diagramma riportato a lato, riporta la logica di passaggio tra le varie schermate. In questa condizione, il tasto RESET consente di passare dal fattore USER al FACTORY.

5.5 CONTENUTO DELL'IMBALLLO 1- contenuto della confezione 2- peso del contenuto 3- descrizione del prodotto

5.6 MODALITA' DI UTILIZZO L'utente pu scegliere tra due modalita diverse di utilizzo: il contatore e provvisto di una memoria non volatile che permette di mantenere elevate precisioni, basse perdite di carico, unitamente ad una realizzazione compatta, leggera e di semplice installazione.

5.7 INSTALLAZIONE 1-NORMAL MODE 2-FLOW RATE MODE

5.8 USO GIORNALIERO K200 METER e fornito pronto per essere utilizzato. Anche dopo un lungo periodo di stoccaggio, non sono necessarie operazioni di messa in funzione.

5.9 CALIBRAZIONE K200 PULSER, UNA VOLTA CORRETTAMENTE COLLEGATO AL RICEVITORE DI IMPULSI, NON NECESSITA DI NESSUNA OPERAZIONE DI ACCENSIONE O SPERIMENTAZIONE.

5.10 MANUTENZIONE K200 e stato studiato per richiedere la minima manutenzione. Le uniche manutenzioni richieste sono:

5.11 PULIZIA Pulizia della camera di misura, eventualmente necessaria per la particolare natura dei grassi.

5.12 SOSTITUZIONE BATTERIE Il K200 e stato studiato per richiedere la minima manutenzione. Le uniche manutenzioni richieste sono:

5.13 DATI TECNICI Sistema di misura: ingranaggi ovali. Risoluzione (nominale): 0,1 (graz/m). Portata (campo): 0,125 Kg/min; 0,128 L/min; 0,255 lb/min.

5.14 VISTE ESPLOSE ED INGOMBRI Per sostituire le batterie, con riferimento alle posizioni del disegno esplosivo, procedere nel seguente modo:

5.15 PRESSIONE BREVE DEL TASTO CAL 5.16 PRESSIONE BREVE DEL TASTO RESET

5.17 PRESSIONE BREVE DEL TASTO CAL 5.18 PRESSIONE BREVE DEL TASTO RESET

5.19 PRESSIONE BREVE DEL TASTO CAL 5.20 PRESSIONE BREVE DEL TASTO RESET

5.21 PRESSIONE BREVE DEL TASTO CAL 5.22 PRESSIONE BREVE DEL TASTO RESET

5.23 PRESSIONE BREVE DEL TASTO CAL 5.24 PRESSIONE BREVE DEL TASTO RESET

6 MODALITA' DI UTILIZZO
7 INSTALLAZIONE
8 USO GIORNALIERO
9 CALIBRAZIONE
9.1 DEFINIZIONI
9.2 MODALITA' DI CALIBRAZIONE
9.2.1 VISUALIZZAZIONE "K FACTOR" ATTUALE E RIPRISTINO DEL "FACTORY K FACTOR".
9.2.2 CALIBRAZIONE IN CAMPO
9.2.3 MODIFICA DIRETTA DEL K FACTOR
10 MANUTENZIONE
10.1 PULIZIA
10.2 SOSTITUZIONE BATTERIE
11 MALFUNZIONAMENTI
12 SMALTIMENTO
13 DATI TECNICI
14 VISTE ESPLOSE ED INGOMBRI

6 MODALITA' DI UTILIZZO

L'utente pu scegliere tra due modalita diverse di utilizzo: il contatore e provvisto di una memoria non volatile che permette di mantenere elevate precisioni, basse perdite di carico, unitamente ad una realizzazione compatta, leggera e di semplice installazione.

7 INSTALLAZIONE 1-NORMAL MODE 2-FLOW RATE MODE

8 USO GIORNALIERO K200 METER e fornito pronto per essere utilizzato. Anche dopo un lungo periodo di stoccaggio, non sono necessarie operazioni di messa in funzione.

9 CALIBRAZIONE K200 PULSER, UNA VOLTA CORRETTAMENTE COLLEGATO AL RICEVITORE DI IMPULSI, NON NECESSITA DI NESSUNA OPERAZIONE DI ACCENSIONE O SPERIMENTAZIONE.

9.1 DEFINIZIONI Fattore moltiplicativo che il sistema applica agli impulsi elettrici ricevuti, per trasformarli in unita di fluido misurato.

9.2 MODALITA' DI CALIBRAZIONE 1 Per visualizzare il fattore di calibrazione attualmente utilizzato.

9.2.1 VISUALIZZAZIONE "K FACTOR" ATTUALE E RIPRISTINO DEL "FACTORY K FACTOR". Premendo a lungo il tasto CAL mentre l'apparecchio e in Stand-by si giunge alla schermata che mostra il fattore di calibrazione attualmente utilizzato.

9.2.2 CALIBRAZIONE IN CAMPO Questa procedura prevede l'erogazione del fluido in un recipiente campione graduato nelle reali condizioni operative (portata, viscosita, ecc) alle quali e richiesta la massima precisione.

9.2.3 MODIFICA DIRETTA DEL K FACTOR Se il normale utilizzo di K200 mostra un errore percentuale medio, questo pu essere corretto applicando al fattore di calibrazione attualmente utilizzato, una correzione di pari percentuale.

10 MANUTENZIONE K200 e stato studiato per richiedere la minima manutenzione. Le uniche manutenzioni richieste sono:

10.1 PULIZIA Pulizia della camera di misura, eventualmente necessaria per la particolare natura dei grassi.

10.2 SOSTITUZIONE BATTERIE Il K200 e stato studiato per richiedere la minima manutenzione. Le uniche manutenzioni richieste sono:

11 MALFUNZIONAMENTI Problema possibile causa azione correttiva

12 SMALTIMENTO In caso di demolizione del sistema, le parti di cui e composto devono essere affidate a ditte specializzate nello smaltimento e riciclaggio dei rifiuti industriali e, in particolare:

13 DATI TECNICI Sistema di misura: ingranaggi ovali. Risoluzione (nominale): 0,1 (graz/m). Portata (campo): 0,125 Kg/min; 0,128 L/min; 0,255 lb/min.

14 VISTE ESPLOSE ED INGOMBRI Per sostituire le batterie, con riferimento alle posizioni del disegno esplosivo, procedere nel seguente modo:

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17 PRESSIONE BREVE DEL TASTO CAL 18 PRESSIONE BREVE DEL TASTO RESET

19 PRESSIONE BREVE DEL TASTO CAL 20 PRESSIONE BREVE DEL TASTO RESET

21 PRESSIONE BREVE DEL TASTO CAL 22 PRESSIONE BREVE DEL TASTO RESET

23 PRESSIONE BREVE DEL TASTO CAL 24 PRESSIONE BREVE DEL TASTO RESET

25 PRESSIONE BREVE DEL TASTO CAL 26 PRESSIONE BREVE DEL TASTO RESET

27 PRESSIONE BREVE DEL TASTO CAL 28 PRESSIONE BREVE DEL TASTO RESET

11 MALFUNZIONAMENTI
12 SMALTIMENTO
13 DATI TECNICI
14 VISTE ESPLOSE ED INGOMBRI

11 MALFUNZIONAMENTI

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27 PRESSIONE BREVE DEL TASTO CAL 28 PRESSIONE BREVE DEL TASTO RESET

29 PRESSIONE BREVE DEL TASTO CAL 30 PRESSIONE BREVE DEL TASTO RESET

31 PRESSIONE BREVE DEL TASTO CAL 32 PRESSIONE BREVE DEL TASTO RESET

33 PRESSIONE BREVE DEL TASTO CAL 34 PRESSIONE BREVE DEL TASTO RESET

35 PRESSIONE BREVE DEL TASTO CAL 36 PRESSIONE BREVE DEL TASTO RESET

37 PRESSIONE BREVE DEL TASTO CAL 38 PRESSIONE BREVE DEL TASTO RESET

39 PRESSIONE BREVE DEL TASTO CAL 40 PRESSIONE BREVE DEL TASTO RESET

41 PRESSIONE BREVE DEL TASTO CAL 42 PRESSIONE BREVE DEL TASTO RESET

43 PRESSIONE BREVE DEL TASTO CAL 44 PRESSIONE BREVE DEL TASTO RESET

45 PRESSIONE BREVE DEL TASTO CAL 46 PRESSIONE BREVE DEL TASTO RESET

47 PRESSIONE BREVE DEL TASTO CAL 48 PRESSIONE BREVE DEL TASTO RESET

49 PRESSIONE BREVE DEL TASTO CAL 50 PRESSIONE BREVE DEL TASTO RESET

51 PRESSIONE BREVE DEL TASTO CAL 52 PRESSIONE BREVE DEL TASTO RESET

11 MALFUNZIONAMENTI
12 SMALTIMENTO
13 DATI TECNICI
14 VISTE ESPLOSE ED INGOMBRI

11 MALFUNZIONAMENTI

Problema possibile causa azione correttiva

12 SMALTIMENTO In caso di demolizione del sistema, le parti di cui e composto devono essere affidate a ditte specializzate nello smaltimento e riciclaggio dei rifiuti industriali e, in particolare:

13 DATI TECNICI Sistema di misura: ingranaggi ovali. Risoluzione (nominale): 0,1 (graz/m). Portata (campo): 0,125 Kg/min; 0,128 L/min; 0,255 lb/min.

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25 PRESSIONE BREVE DEL TASTO CAL 26 PRESSIONE BREVE DEL TASTO RESET

27 PRESSIONE BREVE DEL TASTO CAL 28 PRESSIONE BREVE DEL TASTO RESET

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31 PRESSIONE BREVE DEL TASTO CAL 32 PRESSIONE BREVE DEL TASTO RESET

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39 PRESSIONE BREVE DEL TASTO CAL 40 PRESSIONE BREVE DEL TASTO RESET

41 PRESSIONE BREVE DEL TASTO CAL 42 PRESSIONE BREVE DEL TASTO RESET

43 PRESSIONE BREVE DEL TASTO CAL 44 PRESSIONE BREVE DEL TASTO RESET

45 PRESSIONE BREVE DEL TASTO CAL 46 PRESSIONE BREVE DEL TASTO RESET

47 PRESSIONE BREVE DEL TASTO CAL 48 PRESSIONE BREVE DEL TASTO RESET

49 PRESSIONE BREVE DEL TASTO CAL 50 PRESSIONE BREVE DEL TASTO RESET

51 PRESSIONE BREVE DEL TASTO CAL 52 PRESSIONE BREVE DEL TASTO RESET

11 MALFUNZIONAMENTI
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11 MALFUNZIONAMENTI

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