

## 9 MAINTENANCE

### FOREWORD

K200 PULSER has been designed to require a minimum amount of maintenance. The only maintenance jobs required are:

#### 1 Filter cleaning

Measurement chamber cleaning.

**2** Maintenance should be performed only by authorized personnel who have read and understood this manual. In order to guarantee the product's functionality, always change original spare parts when replacing damaged components.

The cleaning of the measurement chamber can be performed without removing the instrument from the line or the dispensing gun on which it is installed.

Always make sure that the liquid has been drained from the liter counter before cleaning.

To clean the chamber proceed as follows (with reference to the positions of the spare parts list):

Unscrew the 4 sealing screws of the top cover (pos. 9).

Remove the cover (pos. 10) and the O-ring (pos. 11).

Remove the 2 oval gears (pos. 12).

Clean where necessary. For this operation, use a brush or a pointed object such as a small screwdriver.

Be careful not to damage the body or gears.

Perform the reverse procedure to re-assemble the instrument. To facilitate installation, install the first gear to the second with the major axis at 90° to the first gear.

Check the free rotation of the gears before closing the lid.

Reassemble the gears following the assembly diagram below.

Only one of the gears described is provided with magnets. Make sure that the oval gear at the top is assembled with the 2 magnets (pos.14) fixed to the gear.

The K200 filter can be cleaned without removing the instrument from the line or the dispensing gun on which it is installed. Always make sure that the liquid is drained from the liter counter before cleaning.

ATTENTION

Per la pulizia del filtro procedere come segue (con riferimento alle posizioni della lista delle parti di ricambio):

1. Unscra

2. Remove the cover (pos. 8) and the O-ring (pos. 6).

3. Remove the filters (pos. 4 and 3);

4. Clean the filters with compressed air;

5. Perform the reverse procedure to re-assemble the filters;

The pos. 4 of the filter has a wider filtration network than pos. 3 and must be installed first in the flow direction.

## 10 MALFUNCTIONS

### 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, whether part-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 electronic components, in accordance with the indications of directive 2012/19/EU (see text of directive below).

European Directive 2012/19/EU requires that all equipment marked with this symbol on the product and/or packaging not be disposed of together with non-differentiated urban waste. The symbol indicates that this product must not be disposed of together with the owner or distributor of these products, as well as other electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local governing authorities.

Disposing of RAEE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately.

Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health.

In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.

Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specialising in the disposal of industrial waste.

## 12 TECHNICAL DATA

**Measurement system** Oval gears

**Resolution (nominal)** 0,0006 l/pulse

**Pulses / liter** 1400

**Type of pulses** Clean contact

**Flow rate (field)** 10 - 100 l/h

**Working pressure (Max)** 30 (Bar) / 435 (psi)

**Burst pressure (Min)** 100 (Bar) / 1450 (psi)

**Storage temperature (field)** -20 - + 70 (°C)

**Operating temperature (Max)** 95 (% RH)

**Operating temperature (field)** -10 - + 60 (°C)

**Dose of load (at maximum flow with diesel)** 0,4 bar

**Viscosity range** 2 - 1000 cSt

**Precision (in range)** +/- 1%

**Repeatability** +/- 0,2 %

**Threading inlet / outlet ports** 1/4" GAS

**Current Max** 100 mA

**Max. Voltage** 28 Vac/dc

**Weight** 0,490 Kg

## 11 DISPOSAL

### Foreword

The present manual is intended for Piusi S.p.A. which is the proprietor exclusively of all the rights reserved by law, including those relating to the protection of industrial designs, trademarks, patents, etc., and, in particular, to the protection of the intellectual property rights of the manufacturer.

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**1 DICHIARAZIONE CE DI CONFORMITÀ'**

La sottoscritta PIUSI S.p.A.  
Via Pacinotti 16/A - z.i. Rangavino  
46029 Suzara - Mantova - Italia

DICHIARA sotto la propria responsabilità, che il dispositivo descritto in appresso:

**Dispositivo: CONTALITRI PULSER**

**Modello: K200**

Matricola: riferirsi al Lot Number riportato sulla targa CE apposta sul prodotto.

Anno di costruzione: riferirsi all'anno di produzione riportato sulla targa CE apposta sul prodotto.

E' conforme alle disposizioni legislative che traspongono le direttive:

- **Directiva Compatibilità Elettromagnetica 2014/30/UE**

La documentazione è a disposizione dell'autorità competente su motivata richiesta presso PIUSI S.p.A. o richiedendola all'indirizzo e-mail:

doc.tec@piusi.com

La persona autorizzata a costituire il fascicolo tecnico e a redigere la dichiarazione è Otto Varini in qualità di legale rappresentante.



Otto Varini  
Legale rappresentante

Suzara, 20/04/2016

**2 AVVERTENZE GENERALI**

Avvertenze importanti

Simbologia utilizzata nel manuale

Conservazione del manuale

Diritti di riproduzione

**3 ISTRUZIONI DI SICUREZZA****3.1 AVVERTENZE DI SICUREZZA**

ATTENZIONE: Per evitare il contatto tra l'alimentazione elettrica e il liquido da pompare.

Interventi di controllo e manutenzione: Prima di qualsiasi intervento di controllo o manutenzione, togliere l'alimentazione.

Ai fini della sicurezza, rispettare gli avvisi e le avvertenze sotto specificati prima di mettere in funzione il contalitri.

INCENDIO ED ESPLOSIONI: Qualora liquidi infiammabili siano presenti nell'area di lavoro, come benzina e liquidi lavavetri, occorre essere molto attenti al fatto che vapori infiammabili possono incendiarsi o esplodere.

USO IMPROPRIO DELL'ATTREZZATURA: L'uso improprio può causare la morte o lesioni gravi.

Pericolio di liquidi o fumi tossici:

Leggere la scheda di sicurezza per conoscere i rischi specifici dei liquidi utilizzati.

Conservare i liquidi pericolosi in contenitori omologati, e smaltire in conformità alle linee guida applicabili.

Il contatto prolungato con il prodotto trattato può causare irritazione della pelle; indossare sempre guanti protettivi durante l'erogazione.

**3.2 NORME DI PRONTO SOCCORSO**

NOTA:



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**

CARATTERISTICHE ESSENZIALI DELL'EQUIPAGGIAMENTO DI PROTEZIONE:

DISPOSITIVI DI PROTEZIONE INDIVIDUALE DA INDOSSARE:

Scarpe antinfortunistiche;

Indumenti attillati al corpo;

Guanti di protezione;

Occhiali di sicurezza;

Manuale di istruzioni.

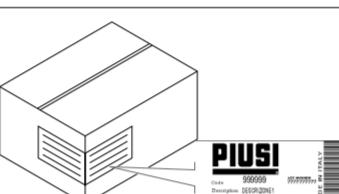
**3.4 IMBALLO**

K200 è 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'IMBALLO**

PREMessa:

NOTA:



Per aprire l'imballo, utilizzare delle forbici o un taglierino. Nel caso in cui uno o più componenti di seguito descritti non siano presenti all'interno della confezione, contattare il servizio di assistenza tecnica PIUSI S.p.A.

ATTENZIONE: Verificare che i dati di targa 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**

PREMessa:

PRINCIPIO DI FUNZIONAMENTO: Il K200 è un contalitri sviluppato per soddisfare le esigenze di controllo, misurazione, erogazione e travaso di oli lubrificanti e carburanti a basse potenze.

Il principio di misura ad ingranaggi ovali modulari consente di ottenere elevate precisioni per diversi campi di portata unitamente a ridotte perdite di carico.

Il fluido, passando attraverso lo strumento, mette in rotazione gli ingranaggi che trasferiscono delle "unità di flusso" di volume costante.

L'erogazione di fluido erogato viene effettuata conteggiando le rotazioni compiute dagli ingranaggi ovali in resina o acetalica e quindi, le "unità di flusso" trasferite.

L'accoppiamento magnetico, realizzato tra i magneti installati negli ingranaggi e un interruttore magnetico posto fuori dalla camera di misura, garantisce la sigillatura della camera di misura e assicura la trasmissione ad un microprocessore degli impulsi generati dalla rotazione degli ingranaggi.

Il corpo del contalitri è realizzato in alluminio trafilato. Le bocche d'ingresso ed uscita sono allineate e filettate per permettere una facile installazione ed erogazione. Il diametro e la filettatura sono standard del modello.

Al bocca d'ingresso è installato un filtro a rete, accessibile dall'esterno mediante opportuno coperchio, che protegge gli ingranaggi del contalitri da eventuale spazzatura.

Non soffiare aria compressa attraverso il contalitri. Evitare che i liquidi si seccino all'interno del contalitri.

Per prevenire incendi ed esplosioni: Utilizzare l'attrezzatura soltanto in aree ben ventilate.

Eliminare tutte le fonti di incendio quali sigarette e lampade portatili.

Mantenere l'area di lavoro sana da impurità, e da stracci e recipienti di solvente e benzina versati o aperti.

Non collegare o scollegare cavi di alimentazione o accendere o spegnere le luci quando sono presenti vapori infiammabili.

Collegare a terra tutte le attrezature presenti nell'area di lavoro.

Interrompere subito il funzionamento in caso di scariche statiche o se si avverte una scossa. Non utilizzare questa attrezzatura finché il problema non è stato individuato e risolto.

Tenere un estintore funzionante nell'area di lavoro. Non mettere in funzione l'unità quando si è affaticati o sotto l'influenza di droga o alcol.

Non lasciare l'area di lavoro mentre l'attrezzatura è in tensione o in pressione. Spegnere tutte le attrezature quando non sono utilizzate.

Non alterare o modificare l'attrezzatura. Alterazioni o modifiche all'attrezzatura possono rendere nelle loro conseguenze pericolosi per la sicurezza.

Per passare i tubi e i cavi lontano dalla strada, bordi taglienti, parti in movimento, e superfici calde.

Non torcere o piegare eccessivamente i tubi flessibili o utilizzare tubi inflessibili per tirare l'attrezzatura.

Tenere bambini e animali lontano dall'area di lavoro.

Rispettare tutte le normative di sicurezza vigenti.

**4.1 LIQUIDI COMPATIBILI**

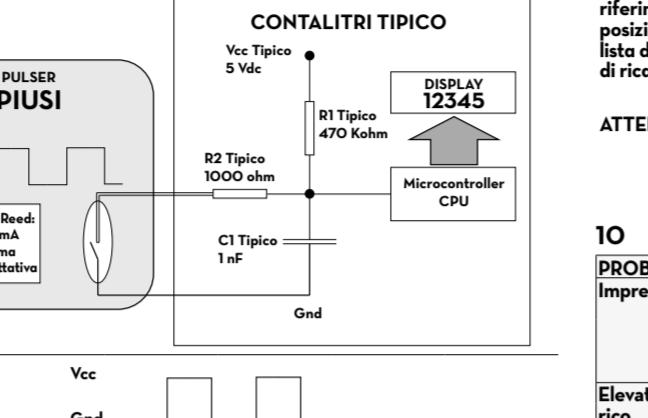
I liquidi compatibili con il K200 SONO i seguenti:

GASOLIO; RAPS OIL; OLIO.

**5 FUNZIONAMENTO**

La versione Pulser è un'emittitore di impulsi (reed bulb) che traduce le variazioni di campo magnetico generato dalla rotazione degli ingranaggi in impulsi elettrici da inviare ad un ricevitore esterno da collegare.

Il pulser non ha bisogno di alimentazione elettrica indipendente in quanto viene alimentato direttamente dal collegamento con il ricevitore. Il tipo di impulso emesso è rappresentato da un'onda quadra generata dalla variazione di tensione così schematizzabile:



Duty Cycle:  $T_{High} / (T_{High} + T_{Low}) \%$

MODELLO PULSER | CAMPO DI PORTATA | PULSER | Frequenza Segnale max | Onda quadra/ Ciclo di lavoro

K200 | 0,1 - 2,8 | 1400 | 5306 | 65 Hz | 20 - 80%

PIUSI S.p.A. | Via Pacinotti 16/A - z.i. Rangavino | 46029 Suzara - (MN) - Italy

HEREBY STATES under its own responsibility, that the equipment described below:

Description: PULSE 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 directions:

- Electromagnetic Compatibility Directive 2014/30/EU

The documentation is at the disposal of the competent authority following motivated request of 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.

Otto Varini  
legal representative.

Suzara, 20/04/2016

Otto Varini  
legal representative.

Le parti metalliche sia quelle vernicate, sia quelle in acciaio sono normalmente recuperabili dalle aziende specializzate nel settore della rottamazione dei metalli.

Devono obbligatoriamente essere smaltiti da aziende specializzate nello smaltimento dei componenti elettronici, in conformità alle indicazioni della direttiva 2012/19/UE (vedi direttiva).

La direttiva Europea 2012/19/UE, richiede che le apparecchiature elettroniche elettroniche che trasferiscono dati nel flusso di dati, siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali.

E' fatto obbligo di non smaltire le apparecchiature RAEE come rifiuti urbani e/o di effettuare, per detti rifiuti, una raccolta separata.

La eventuale presenza di sostanze pericolose nelle apparecchiature elettriche ed elettroniche e/o un uso improprio delle stesse apparecchiature possono creare effetti potenziali sull'ambiente e sulla salute umana.

In caso di smaltimento abusivo di detti rifiuti sono previste sanzioni definite dalle norme vigenti.

Ulteriori parti costituenti il prodotto, come tubi, guarnizioni in gomma, parti in plastica e cablaggi, sono da affidare a ditte specializzate nello smaltimento dei rifiuti industriali.

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The fluid passing through the instrument, rotates the gears that measure the amount of fluid dispensed is carried out by counting the rotations performed by the oval gears in acetate resin and, therefore, the "fluid units" transferred.