



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX KTL 10.0004X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2017-04-24)
Date of Issue:	2022-06-15		Issue 2 (2014-01-03)
Applicant:	KLT Co., Ltd. 34-12, Bangchon-ro 955beon-gil, Tanhyeon-myeon, Paju-si Gyeonggi-do 10857 Korea, Republic of		Issue 1 (2012-02-21)
Equipment:	Automatic Single Point Lubricators (Pulsarlube C, V)		Issue 0 (2010-10-22)
Optional accessory:			
Type of Protection:	Intrinsic safety "i"		
Marking:	Ex ia IIC T4 Ga		

Approved for issue on behalf of the IECEx
Certification Body:

Park, Jong-Koo

Position:

Certification manager

Signature:
(for printed version)

Date:
(for printed version)

Handwritten signature
2022-06-15

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

Korea Testing Laboratory
87, Digital-ro, 26-gil, Guro-gu
Seoul
Korea, Republic of





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Manufacturer: **KLT Co., Ltd.**
34-12, Bangchon-ro 955beon-gil, Tanhyeon-myeon, Paju-si
Gyeonggi-do 10857
Korea, Republic of

Manufacturing locations: **KLT Co., Ltd.**
34-12, Bangchon-ro 955beon-gil,
Tanhyeon-myeon, Paju-si
Gyeonggi-do 10857
Korea, Republic of

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

KR/KTL/ExTR10.0004/00
KR/KTL/ExTR10.0004/03

KR/KTL/ExTR10.0004/01
KR/KTL/ExTR10.0004/04

KR/KTL/ExTR10.0004/02

Quality Assessment Report:

KR/KTL/QAR10.0002/08



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Pulsarlube C and V series are stationary, battery operated automatic single point lubricators to deliver the correct amount of grease to a single lubrication point over a set time period. The lubricators operate on the principle of inert Nitrogen gas generation through the use of an electrolyte and electrical energy.

Power is provided by two Alkaline (MnO₂) batteries (Energizer E91 or Duracell MN1500, AA size, Max. 1.65 V each) connected in series.

Model names are categorized by the capacity and display options. Refer to the below details.

<Pulsarlube C>

C125 - Grease Capacity(cc) : 125, Display : LED

C250 - Grease Capacity(cc) : 250, Display : LED

<Pulsarlube V>

V125 - Grease Capacity(cc) : 125, Display : LCD

V250 - Grease Capacity(cc) : 250, Display : LCD

Ambient temperature: -20 °C to +55 °C.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1) Warning – Potential electrostatic charging hazard – see instructions.

The non-metallic parts incorporated in the enclosure of the equipment may generate an ignition capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions can result in the built-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.

2) Warning - Do not change internal batteries – see instructions.

The internal batteries shall not be changed nor replaced.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

1. Modification of documents related to the marking plate
2. Change of schedule drawings' numbers

Issue 2:

1. Change of each model name (KLT100C→C125, KLT200C→C250, KLT500→V125, KLT1000→V250)
2. Alternative structure and material of the enclosure introduced to improve ingress protection.

Issue 3:

1. The construction of the enclosure has been modified to eliminate the decorative parts and to enhance the LCD window.
2. The construction of the battery chamber including the terminals for battery connection has been changed.
3. GHS (Globally Harmonized System) warning has been added to the marking label.
4. MCU discontinued has been changed to the new MCU.
5. Addition of an alternative battery (Duracell MN1500)
6. Assessment according to the new version of standards, IEC 60079-0:2011 and IEC 60079-11:2011.

Issue 4:

1. The material of the battery chamber caps and the cylinders has been newly added.
2. The address of the manufacturing location has been changed.
3. Update of IEC 60079-0 standard to the latest edition, IEC 60079-0:2017(Ed.7)
4. Minor modification of several mechanical parts to correct dimension's errors without adversely affecting the intrinsic safety of the equipment