

OPERATING INSTRUCTIONS

EMPTY ENCLOSURE



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APPLICATION

Empty boxes type LKE are explosion-protected. They can be used as basic for certifying terminal- and control boxes.

They are manufactured from sheet or stainless steel in a range of sizes.

PURPOSE OF THESE INSTRUCTIONS

Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.

Assembly and maintenance staff working on installations therefore have a particular responsibility. They require precise knowledge of the applicable standards and regulations.

These instructions give a brief summary of the most important safety measures. They supplement the corresponding regulations which the staff responsible must study.

Subject to alteration.

1 SAFETY INSTRUCTIONS

Use the boxes only for its permitted purpose.

Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.

Any alterations and modifications to the box impairing its explosion protection are not permitted.

Observe the following during setting-up and operation:

- national safety regulations
- national accident prevention regulations
- national installation regulations (e.g. IEC 60079-14)
- generally recognized technical regulations
- safety guidelines in these operating instructions
- characteristic values and rated operating conditions on the rating and data plates
- additional instruction plates fixed directly to the device

Any damage can invalidate the Ex-protection.



If required, we will provide a copy of the EC Type-Test Certificate with the relevant annex.

1.1 CONFORMITY TO STANDARDS

Each box complies with the following standards and regulations:

Directive 94/9/EC

EN 50014, EN 50019, EN 50281-1-1

The boxes type LKE are suitable for use in hazardous areas zones 1, 2, 21 and 22.

2 TECHNICAL DATA

Test certificate	KEMA 03 ATEX 2138U
Material	Stahlblech / Sheet or stainless steel
Degree of protection to IEC/CEI 60529	max. \geq IP 66
Temperature range	- 33 °C ... + 40 °C - 33 °C ... + 55 °C

3 DISPOSAL

Observe the national standards for refuse disposal.



We are pleased to answer any special questions you may have.

Should you require the operating instructions in one of the other European Community languages, please feel free to contact Electromach.

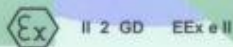


4 DIMENSIONS SKETCH

5 EC-TYPE EXAMINATION CERTIFICATE



- (1) **EC-TYPE EXAMINATION CERTIFICATE**
- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 03ATEX2138 U**
- (4) Components: **Enclosure, series LKE....**
- (5) Manufacturer: **Electromach b.v., Member of the R. STAHL Technology Group**
- (6) Address: **Hamerstraat 10, 7556 MZ Hengelo, The Netherlands**
- (7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the directive.
- The examination and test results are recorded in confidential report no. 2028530.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- | | | |
|------------------------|------------------------|----------------------------|
| EN 50014 : 1997 | EN 50019 : 2000 | EN 50281-1-1 : 1998 |
|------------------------|------------------------|----------------------------|
- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified components according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of these components. These are not covered by this certificate.
- (12) The marking of the components shall include the following:



Arnhem, 12 June 2003
KEMA Quality B.V.

T. Pijpker
Certification Manager

* This Certificate may only be reproduced in its entirety and without any change

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ACCREDITED BY THE
DUTCH COUNCIL FOR
ACCREDITATION



6 DECLARATION OF CONFORMITY

EG-Konformitätserklärung
EC-Declaration of Conformity
CE-Déclaration de Conformité



Wir (*we; nous*)

ELECTROMACH BV, Hamerstraat 10, 7556 MZ Hengelo

LKE

erklären in alleiniger Verantwortung, daß das Produkt
hereby declare in our sole responsibility, that the product
déclarons de notre seule responsabilité, que le produit

Leergehäusen
Empty box
Boîtier

auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten übereinstimmt

which is the subject of this declaration, is in conformity with the following standard(s) or normative documents

auquel cette déclaration se rapporte, est conforme aux norme(s) ou aux documents normatifs suivants

Bestimmungen der Richtlinie
terms of the directive
prescription de la directive

Titel und/oder Nr. sowie Ausgabedatum der Norm
title and/or No. and date of issue of the standard
titre et/ou No. ainsi que date d'émission des normes

94/9 EG: Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen
94/9 EC: Equipment and protective systems intended for use in potentially explosive atmospheres
94/9 CE: Appareils et systèmes de protection destinés à être utilisés en atmosphères explosibles

EN 50 014 (1997)
 EN 50 019 (2000)
 EN 50 281-1-1 (1998)

89/336 EWG: Elektromagnetische Verträglichkeit
89/336 EEC: Electromagnetic compatibility
89/336 CEE: Compatibilité électromagnétique

EG-Baumusterprüfbescheinigung:
EC-Type Examination Certificate:
Attestation d'examen CE de type:

KEMA 03 ATEX 2138 U


Qualitätssicherung Produktion:
Production Quality Assessment:
Assurance Qualitée Production:

KEMA 01 ATEX Q3201

Hengelo, 18.11.2003

Ort und Datum
Place and date
lieu et date


J.F.W. Wijnen
Geschäftsführer
Managing Director
Directeur Général


W.H. Moelard
Leiter Qualitätsmanagement
Head of quality management dept.
Chef du dept. assurance de qualité