



# 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](http://www.iecex.com)

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Status: **Current** Issue No: 0

Date of Issue: 2019-06-07

Applicant: **GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG**  
Fritz-Müller-Straße 6-8  
74653 Ingelfingen  
Germany

Equipment: **Electrical position indicator type GEMÜ 1242**

Optional accessory:

Type of Protection: **Increased safety "ec" in combination with type of protection "n" or protection by enclosure "tc"**

Marking: Ex ec nC IIC T4 Gc  
Ex tc IIIC T80 °C Dc  
0 °C ≤ T<sub>amb</sub> ≤ +60 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Dipl.-Ing. Alexander Henker**

Position:

**Head of Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Certification Body  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





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Manufacturer: **GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG**  
Fritz-Müller-Straße 6-8  
74653 Ingelfingen  
Germany

Manufacturing  
locations:

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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 Report:

[DE/IBE/ExTR18.0022/00](#)

Quality Assessment Report:

[DE/IBE/QAR19.0001/00](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The GEMÜ 1242 position indicators are used for position detection of pneumatically actuated linear actuators. There are two housing variants and 3 versions for different bus systems. The position is detected by a grinder actuated by the spindle, which travels along 2 resistance tracks. A microprocessor evaluates this resistance value and transfers this data to the interface. Furthermore, LEDs are activated for far-sighted position indication. The device is intended for use in zone 2 and zone 22.

## **Technical data**

Temperature range:  $0\text{ °C} \leq T_a \leq +60\text{ °C}$

degree of protection: IP64

Communication interface:

- 24 V with IO-Link
- AS-Interface
- DeviceNet

Variants of enclosure:

- Main body made of aluminium, covering cap made of polycarbonate
- Main body made of stainless steel, covering cap made of polycarbonate

## **Electrical parameters**

Supply voltage and currents:

24 V with IO-Link	24 V (18 to 30 V DC); normally 40 mA / 100 mA switching current
AS-Interface	26.5 to 31.6 V DC; normally 50 mA
DeviceNet	24 V (11 to 25 V DC); normally 30 mA

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Connecting cables and connectors must be protected against damage
- Dust layers > 5 mm must be avoided.
- The plastic housing must be protected against intensive electrostatic charging processes.
- The surface may only be cleaned with a damp cloth.
- The M12 connectors may only be disconnected in the de-energised state.