



T r a n s l a t i o n

**Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin**

(Federal Institute of Physics and Metrology)

- (1) **CERTIFICATE OF CONFORMITY**
- (2) **PTB No. Ex-97.D.2067**
- (3) This document has been awarded to the electrical apparatus
ex-proof continuity tester type Ex-DT11
- (4) of the company **ECOM Rolf Nied GmbH**
D-97959 Assamstadt
- (5) The design of this electrical apparatus as well as its different permissible variations are stipulated in the appendix to this certificate of conformity.
- (6) The Physikalisch-Technische Bundesanstalt (Federal Institute of Physics and Metrology) certifies as qualified authority according to article 14 of the directive of the European Council dated 18th December 1975 (76/117/EEC) that this electrical apparatus meets the harmonized European standards
Electrical equipment for potentially explosive atmospheres
EN 50 014:1977 + A1...A5 (VDE 0170/0171 Section 1/1.87) General Terms
EN 50 020:1977 + A1...A5 (VDE 0170/0171 Section 7/4.92) Inherent Safety "i"
after the apparatus has successfully passed inspections and testings. The results of the tests are described in the confidential test records.
- (7) The apparatus must be equipped with the following marking:
EEx ia IIC T6
- (8) The manufacturing company is responsible for the fact that the design of each apparatus labelled as per above complies with test records mentioned in the appendix to this certificate and that the prescribed routine check tests have successfully been executed.
- (9) The electrical apparatus may bear the common distinctive mark (stated in this certificate) according to appendix II of the directive of the European Council dated 6th February 1979 (79/196/EEC).

By Order

Braunschweig, 9th May 1997

(Signature)

(Stamp)

Dr.-Ing. Johannsmeyer
Oberregierungsrat

Test documents without signature and official stamp are invalid.
Certificates must be reproduced in full.
Excerpts or alterations must officially be approved by the
Physikalisch-Technische Bundesanstalt
(Federal Institute of Physics and Metrology)

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A P P E N D I X
to the Certificate of Conformity PTB No. Ex-97.D.2067

The ex-proof continuity tester type Ex-DT11 serves checking of electric connections in potentially explosive atmospheres.

Electrical Data

Supply (internal battery) 3 pcs. round cells AA according to IEC LR6; U = 4.5 V

Measuring circuitry type of protection inherent safety EEx ia IIC
with following maximum values:

U_o = 4.5 V
I_o = 19.4 mA
P_o = 22 mW

	IIB	IIC
maximum permissible outer capacitance	3000 μ F	200 μ F
maximum permissible outer inductance	330 mH	90 mH

Characteristic curve: linear

The battery is to be replaced only outside potentially explosive atmospheres (information sign).

Test records

all signed on 11th March 1997

1. Description (7 pages)
2. Drawing no. 135 S0100 with list of parts
135B0100
135G0101
135 G0200
135 L0100
135 L0200
ESV 10A 13

By Order
(Signature)

(Stamp)

Braunschweig, 9th May 1997


Dr.-Ing. Johannsmeyer
Oberregierungsrat

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Certified English Translation

The translation of the official document issued in German language is TRUE, CORRECT and COMPLETE to the best of my knowledge.

Sersheim, 3rd June 1997


(Signature)

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