Translation

(1) # EC TYPE-EXAMINATION CERTIFICATE

(2) Equipment or Protective System intended for use in potentially explosive atmospheres **- Directive 94/9/EC**

(3) EC-Type Examination Certificate Number

TÜV 99 ATEX 1387 X

(4)	Equipment or Protective System:	Handheld Lasermeter Type Ex-DISTO*
(5)	Manufacturer:	ECOM Rolf Nied GmbH
(6)	Address:	Industriestraße 2 D-97959 Assamstadt

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate.

(8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV Certification Body N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Basic Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report N° 99/PX01690.

(9) Compliance with the Basic Health and Safety Requirements has been assured by compliance with:

EN 50 014 : 1997 **EN 50 020 : 1994**

(10) If the sign "X" is placed after the certification number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type examination certificate relates only to the design and construction of the specified equipment or protective system according to Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and placing on the market of this equipment or protective system.

(12) The marking of the equipment or protective system must include the following:

II 2 G EEx ia IIC T4

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Head of the Certification Body

Hannover, 1999-03-19

(13) **SCHEDULE**

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 99 ATEX 1387 X**

(15) Description of equipment or protective system

The Handheld Lasermeter Type Ex-DISTO* is used for the measuring of distances in explosion hazardous areas.

Electrical data

Supply	U = 6 V
(internal battery)	4 primary cells according to IEC LR6 size AA
RS 232-Interface	for the connection to PELV- resp. SELV- low-voltages U_m = 25 VAC resp. 60 VDC only for the use outside of explosion hazardous areas

The batteries may only be replaced outside of the explosive hazardous area (sign).

(16) Test documents are listed in the test report No. 99/PX01690.

(17) Special condition for safe use

1. The Handheld Lasermeter may only be used with the accessory leather bag in the explosive hazardous area.
2. The connection of the RS 232-Interface may only be made outside of the explosive hazardous area.

(18) Basic Health and Safety Requirements

no additional ones

BA 02 11.98 1.000.000

Translation

1. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 99 ATEX 1387 X

of the company: ECOM Rolf Nied GmbH
Industriestraße 2
D-97959 Assamstadt

In the future, the Handheld Lasermeter type Ex-DISTO* may also be manufactured according to the test documents listed in the test report.

The electrical data apply unchanged for this supplement.

(16) Test documents are listed in the test report N° 00/PX06000.

(17) Special condition for safe use

For the measuring of distances in category 1 (zone 0) applies the following:

The Handheld Lasermeter Type Ex-DISTO* must not be introduced into the category 0 (zone 0) itself.

The strap of the leather bag has to fixed at the belt or at a belt buckle of the operator in such a way that in the case of free hanging of the device at the strap there is a safety distance greater than 50 cm to the border area of the category 1 (zone 0) observed. It is only allowed to use a strap of the manufacturer.

(18) Essential Health and Safety Requirements

no additional ones

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 2000-03-10

Head of the
Certification Body

[1] # EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use in Potentially Explosive Atmospheres **Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: **IBExU99ATEX1141 X**

[4] Equipment or component: LASER METER Ex-DISTO memo

[5] Applicant: ECOM
Rolf Nied GmbH

[6] Address: Industriestraße 2
D-97959 Assamstadt

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate, and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has 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 IB-99-958 of 2000.01.10.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

DIN EN 50014:1999 and DIN EN 50020:1996

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

⟨Ex⟩ I M2 EEx ia I

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
D-09599 Freiberg

Authorised for certifications
-Explosion protection-

Freiberg, 2000.02.03.

(Dr. Lösch)

- Seal -

Originals
1 x German language
1 x English language
1 x French language

Schedule

[13] **SCHEDULE**

[14] **EC-TYPE EXAMINATION CERTIFICATE IBExU99ATEX1141 X**

[15] **Description of equipment or protective system**

The laser meter Ex-DISTO memo is an intrinsically-safe electrical apparatus for explosive atmospheres of group I with intrinsically safe circuits of category M2.
It is used for measurement of distances in explosive atmospheres.

Specifications

Designation:	LASER METER Ex-DISTO memo
Supply:	power module PM04 incl. 4 mignon cells (LR6), size AA
RS 232-Interface:	for connection on PELV or SELV voltage 25VAC or 60VDC only for use outside the hazardous location
Ambient temperature:	from 0 °C to +40 °C
Ingress protection code:	IP 54

Further details are fixed in the test documents (see annex).

[16] **Report**

The evidence of explosion proofness is recorded in detail in the confidential report IB-99-958 of 2000.01.10.

Summary

The LASER METER Ex-DISTO memo is sufficienting to the requirements of the protection method intrinsically-safe for intrinsically-safe electrical apparatus for explosive atmospheres of group I with intrinsically safe circuits of category M2.

Safety-technical instructions

The manufacturer is obligated to carry out, in accordance to DIN EN 50014:1994, section 24, routine tests and the required tests regarding the observation of criteria for meeting the explosion proofness regulations.

Before affixing the CE marking, the manufacturer is obligated to carry out the required tests within the framework of the conformity assessment procedures according to RL 94/9/EG.

The batteries respectively the battery containment may replaced only outside the hazardous location (indication label available).

[17] **Special conditions for safe use**

Inside the hazardous location the LASER METER Ex-DISTO memo may only used inside the accompanying leather pocket.

The connection of the RS 232-Interface may only used outside the hazardous location.

Authorised for certifications
-Explosion protection-

Freiberg, 2000.02.03.

(Dr. Lösch)

Annex
All descriptive documents are contained at the German version of IBExU99ATEX1141 X.