

1151 Boston-Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781 762 9375 www.fmglobal.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Voice-Ex 180. Digital Voice Recorder.

IS / I / 1 / ABCD / T4 Ta = 50 °C

I / 0 / AEx ia / IIC / T4 Ta = 50 °C

Equipment Ratings:

Intrinsically safe for Class I, Division 1, Groups A, B, C, and D hazardous (classified) locations and intrinsically safe for Class I, Zone 0, Group IIC hazardous (classified) locations

Approved for:

ECOM Rolf Nied GmbH
Industriestraße 2, D-97959 Assamstadt Germany

This certifies that the equipment described has been found to comply with the following Factory Mutual Research Approval Standards and other documents:

Class 3600	1998
Class 3610	1999

Original Approval Job Identification: 3013888 Approval Granted: May 20, 2002

Subsequent Revision Reports / Date Approval Amended

Factory Mutual Research Corporation



Nicholas P. Ludlam
Technical Team Manager
Approvals Division

May 30, 2002
Date



Translation

EC TYPE-EXAMINATION CERTIFICATE

- (1)
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) EC-Type Examination Certificate Number



TÜV 01 ATEX 1733 X

- (4) Equipment: Explosion-proof dictating machine type Voice-Ex 180
- (5) Manufacturer: ECOM Rolf Nied GmbH
- (6) Address: D-97959 Assamstadt, Industrie Str.2
- (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) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV CERT-Certification Body, notified body number 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 Essential 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° 01 YEX 128775.

- (9) Compliance with the Essential 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 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 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

Hanover, 2001-08-21

Head of the
Certification Body





(13)

SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 01 ATEX 1733 X**

(15) Description of equipment

The explosion-proof dictating machine type Voice-Ex 180 is used for speech recording and replay in hazardous explosive areas that require equipment of category 2 resp.3.

The maximum permissible ambient temperature is + 50°C.

Electrical data

Supply (internal battery)	2 pcs batteries according to IEC LR03 or R03 U = 3 V
------------------------------	---

Only batteries successfully type-examined according to Section 10.9 of the EN 50020:1994 are permissible. The manufacturers and the types have to be indicated in the operating instructions.

It is only allowed to replace the batteries outside of the hazardous explosive area (information plate).

(16) Test documents are listed in the test report No.: 01 YEX 128775.

(17) Special conditions for safe use

Only outside of the hazardous explosive area it is allowed to replace the batteries and to open the dictating device.

(18) Essential Health and Safety Requirements

no additional ones