



Safety instructions

**Voice-Ex 180**



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## **1. Introduction**

The ECOM Voice-Ex 180 is a digital dictation device designed for speech recording in Ex-Hazardous areas (with the exception of mining) application categories belonging to Zones 1 and 2 according to ICE/GENELEC.

## **2. Safety Advice**

Safe operation of the device is maintained providing that all instructions and warnings contained in this manual are fully observed. In case of doubt (due to translation and/or printing errors) reference should be made to the original German instruction manual.

## **3. Faults and Damage**

If there is any reason to suspect that the safety of the unit has been affected then it must be immediately withdrawn from use and precautionary measures taken in order to prevent any further use of in the Ex-hazardous area.

It is recommended that the equipment be then sent back to the manufacturers for testing.

The safety and integrity of the unit may be compromised by, for example:

- External damage to the housing.
- Exposure to excessive loads.
- Incorrect storage of the unit.
- Damage sustained in transit
- Correct certification is illegible.
- Functioning errors occur
- The permitted limitations are exceeded

## **4. Safety Regulations**

The use of the intrinsically safe Voice -Ex 180 meets the requirements of the regulations providing that the user observes and applies the requirements as laid down in the regulations and that improper and incorrect use of the unit is avoided.

- The device must not be opened within the Ex-hazardous area.
- Batteries (see technical data) must only be changed outside the Ex-hazardous area.
- Only type-tested batteries must be used
- The use of any other type of batteries is strictly forbidden in that it will invalidate the Ex-data certification.

## 5. Ex-Data



Certificate of Conformity: TÜV 01 ATEX 1733 X

Certification:  II 2 G EEx ia IIC T4

Permitted for Zone 1, Equipment group II, Gas group C hazardous gases, vapour or mist, Temperature class T4.

## 6. Technical Data

Ambient operating temperature: -20 ... +50°C

Power Supply: 2 x LR03 according to ICE,  
AAA (type-tested)

<b>Microzelle Size AAA LR 03 (IEC)</b>	
<i>Supplier:</i>	<i>Type:</i>
Varta	Alkaline Electric Power No. 8003
Varta	Alkaline Universal No. 4003
Duracell	Alkaline
Panasonic	Alkaline Power Line Industrial Battery
Everady (Ralston Energy Systems SA)	Alkaline Energizer
GP	SUPER Alkaline Battery 24A

Dimensions: 115 x 48,2 x 15 mm  
(L x B x H)

Weight: approx.. 83g  
(with batteries)

Casing: Synthetic, silver  
coloured

IP rating: IP 30

CE-Marking:  0102

## **9. Repairs**

The conditions of **ELEX V** are valid for repairs. We recommend the repairs take place at the manufacturers since a safe technical examination is required when making repairs.

## **10. Cleaning and Maintenance**

Equipment must only be cleaned with a damp cloth or sponge. Only use water and soapy water to clean. Solutions or scrubbing materials are not suitable for cleaning.

## **11. Guarantee and Liability**

ECOM grants a guarantee of two years for the functioning and material of this product under normal operating and maintenance conditions. This guarantee does not apply to products that are altered or neglected or used, accidental damage or exposed improperly to unusual operating conditions as well as improper handling.

Guarantee claims can only be granted if the defective equipment is returned. We reserve the right to repairs, new adjustments or exchanges of equipment.

The existing guarantee regulations are the only right to compensation of earnings and are valid exclusively in place of all other contract or legal agreements. ECOM takes no responsibility for special unavoidable consequential damages as well as loss including loss of data, irrelevant of whether or not handling, proper or improper, can be traced back to violation of the guarantee.

In the case of those countries whose restrictions of legal guarantee as well as the exception or restriction of consequential damage is not permitted, it could be that the above mentioned limitations and exceptions are not valid for every purchase. Should any condition of these regulations be found ineffective or not acceptable by a court, the effectiveness or forcibility of any other operation of these regulations will remain untouched.

## 12. Declaration of Conformity

We **ECOM Rolf Nied GmbH, Industriestraße 2, D-97959 Assamstadt** declare under our sole responsibility that the product Voice-Ex 180 to which this declaration relates is in accordance with the provision of the following directives

**94/9/EG**                      Equipment and protective systems in hazardous areas

and is in conformity with the following standards or other normative documents

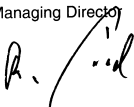
**EN 50014:1997**              electric method operation for hazardous areas, general regulations

**EN 50020:1994**              electrical method of operation for hazardous Areas, own safety.

Ecom Rolf Nied GmbH

Assamstadt, 03/12/01

Rolf Nied  
Managing Director

A handwritten signature in black ink, appearing to read 'R. Nied', is written over the printed name and title of the Managing Director.

## 11. Certificate of Conformity



Translation

### EC TYPE-EXAMINATION CERTIFICATE

- (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 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



www.tuv.com

This certificate may only be reproduced without any change, schedule included.  
Excerpts or changes shall be allowed by the TÜV Hannover/Sachsen-Anhalt e.V.

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## 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
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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



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