



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 00 ATEX 1597 X

- (4) Equipment: Explosion-proof temperature measuring device type Ex-MX2
- (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 and the documents therein referred to.
- (8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV CERT-Certification Body, notified body number 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° 00 PX 16900.

- (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

Hanover, 2000-07-19


Head of the
Certification Body





(13) **SCHEDULE**

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 00 ATEX 1597 X**

(15) Description of equipment or protective system

The explosion-proof temperature measuring device type Ex-MX2 is allowed to be used within the explosion-hazardous area of the Categories 2 and 3 (Zone 1 and Zone 2).

The highest permissible ambient temperature is 50°C.

Electrical data

Supply (internal battery)	2 pcs. alkaline-manganese mignon batteries according to IEC LR6/AA resp. R6/AA, 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.

(16) Test documents are listed in the test report No. 00 PX 16900.

(17) Special condition for safe use

It is only allowed to replace the battery outside of the hazardous area.

In the hazardous explosive area the temperature measuring device must only be used with the associated leather bag.

(18) Basic Health and Safety Requirements

no additional ones

I. SUPPLEMENT
to the
EC Type Examination Certificate No. TÜV 00 ATEX 1597 X

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

The Ex-MX2 explosion-protected temperature measuring device may in future be manufactured in accordance with the documents listed in the Test Report.

The modifications concern the internal structure.

The electrical data, special conditions and all other details apply unchanged for this supplement.

16) Test documents are listed in Test Report No. 01 PX 01310.

(17) Special conditions

unchanged

(18) Essential health and safety requirements

no additional requirements

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

Hannover, 19/01/01

The Director



Translation

2. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 00 ATEX 1597 X

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

In the future, the explosion-proof temperature measuring device type Ex-MX2 may also be manufactured and operated according to the test documents listed in the test report.

The electrical data, the special conditions for safe use and all other data apply unchanged for this supplement.

(16) Test documents are listed in the test report N° 01 YEX 126578.

(17) Special condition for safe use

For the measuring of temperatures in areas that requires category 1 equipment (zone 0) applies the following:

The explosion-proof temperature measuring device type Ex-MX2 must not be introduced into areas that require apparatus of category 0 (zone 0) itself.

The strap of the device with 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 the 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, 2001-07-25

Head of the
Certification Body

3. SUPPLEMENT
to the
EC Type Examination Certificate No. TÜV 00 ATEX 1597 X

of the company: ecom instruments GmbH
Industriestraße 2
D-97959 Assamstadt

The Ex-MX2 explosion-protected temperature measuring device may in future be manufactured and operated in accordance with the documents listed in the test report.

The modifications concern the internal structure.

The electrical data and all other details apply unchanged for this supplement.

(16) Test documents are listed in Test Report No. 03 YEX 551036.

(17) Special conditions

The battery must only be changed outside potentially explosive areas.

In potentially explosive areas, the temperature measuring device may only be operated in its leather pouch.

The following also apply for measuring temperatures within Zone 0:

The Ex-MX2 temperature measuring device itself must not be brought into Zone 0.

The device's carrying strap and leather pouch must be attached to the operator's belt or to a belt loop so that the device still maintains a safety distance of > 50 cm to the boundary area of Zone 0 when it hangs freely on the carrying sling. Only carrying slings of the manufacturer may be used.

(18) Essential health and safety requirements

no additional requirements

TÜV NORD CERT GmbH & Co. KG
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 01/03/04

The Director



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