

Translation

(1) **EC-Type-Examination Certificate**

**TÜV NORD**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**



(3) **Certificate Number** TÜV 12 ATEX 103401 X

(4) for the equipment: Telephone type dA24/...

(5) of the manufacturer: **W. Vershoven GmbH**

(6) Address: Riedingerstraße 10  
45141 Essen

Order number: 8000409168

Date of issue: 2012-08-01

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EC-Type-Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, notified body No. 0044 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 No. 12 203 103401.

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

**EN 60079-0:2009**  
**EN 60079-18:2004**


**EN 60079-7:2007**  
**EN 60079-31:2009**

**EN 60079-11:2012**

(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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

 II 2 G Ex e ib [ib] mb IIC T6 Gb  
II 2 G Ex e ib [ib] mb IIC T4 Gb  
II 2 D Ex tb ib [ib] IIIC T85°C Db  
II 2 G Ex e ib [ib] mb IIB T6 Gb  
II 2 G Ex e ib [ib] mb IIB T4 Gb  
II 2 D Ex tb ib [ib] IIIB T85°C Db

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

Schwedt 

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(13) **SCHEDULE**

(14) **EC-Type-Examination Certificate No. TÜV 12 ATEX 103401 X**

(15) Description of equipment

The telephone dA24/... is intended for the connection to the analogue telephone network and for non-portable applications within industrial environments and explosion hazardous areas.

The connection to the none intrinsically safe telephone network is realised in type of protection increased safety.

The keypad, additional keys, key light, signal circuits as well as the circuits for talk and listen are realised in type of protection intrinsic safety. The telephone circuits and the associated intrinsic safe circuits are located inside a casting compound. An additional model of the device without keys is referred to as dA24/ZB.

As an option a second earpiece or separately certified accessories (e. g. a headset) can be connected to the telephone.

The maximum permissible ambient temperature as a function of the temperature class has to be taken from the table.

Temperature class	Maximum permissible ambient temperature
T6	40°C
T4...T1	60°C
Category 2 D	60°C

For the use of separately certified accessories the specifications of the corresponding EC-Type-Examination Certificate must be adhered.

**Electrical data**

Analogue telephone connection  
(clamps (La, Lb, e and w2))

Supply voltage  $U \leq 60 \text{ V d. c.}$   
 Alternating call voltage  $U \leq 90 \text{ V a. c.}$   
 Supply current  $I = 15 \text{ mA d. c. ... } 60 \text{ mA d. c.}$   
 Breaking capacity of the internal fuse of the device: 35 A

Handset connection  
(pair of clamps  
handset (F, F and M+,M-))

in type of protection intrinsic safety Ex ib IIC/IIB  
 resp. Ex ib IIIC  
 for the connection of the related handset

**Options**

Second earpiece  
(pair of clamps  
headset (F,F))

in type of protection intrinsic safety Ex ib IIC/IIB  
 resp. Ex ib IIIC  
 only for the connection of the second earpiece type ZH2

or

Schedule EC-Type Examination Certificate No. TÜV 12 ATEX 103401 X

Headset  
(pair of clamps  
headset (F, F und M+,M-))

in type of protection intrinsic safety Ex ib IIC/IIB  
resp. Ex ib IIIC  
for the connection e. g. to the headset type MTH79F-50,  
MTH79B-50 resp. MTH79P3E-50 with the  
EC-Type-Examination Certificate number:  
Nemko 02 ATEX 059 X

The specifications of the above named EC-Type-Examination Certificate especially the permissible ambient temperatures must be adhered.

resp. in type of protection intrinsic safety Ex ib IIC/IIB  
resp. Ex ib IIIC  
the following maximum values are applicable:  
 $U_o = 12.6 \text{ V}$   
 $I_o = 20 \text{ mA}$   
 $P_o = 104 \text{ mW}$   
Characteristic line: angular

Gas group	IIC	IIB	IIIC
Max. permissible inductance	50 mH	100 mH	100 mH
Max. permissible capacitance	210 nF	1.2 $\mu\text{F}$	1.2 $\mu\text{F}$

The effective internal capacitance and inductance are negligibly small.

For the use of separately certified accessories the specifications of the corresponding EC-Type-Examination Certificate must be adhered.

The maximum permissible ambient temperature as a function of the temperature class resp. depending on the application has to be taken from the above named table.

(16) Test documents are listed in the test report No. 12 203 409168.

(17) Special conditions for safe use

The device must be fixed mechanically at the place of installation.

In case of insufficient grounding the electrostatically conductive plastic housing must only be cleaned with moistened material.

The device must only be installed in areas where the risk of mechanical impact is reduced to a low impact energy less than 4 Joule.

Non-intrinsically safe connection cables must be carried out in fixed installation.

(18) Essential Health and Safety Requirements

no additional ones