

(1) EC-TYPE-EXAMINATION CERTIFICATE

ZELM ex

- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**
- (3) EC-TYPE-EXAMINATION CERTIFICATE Number:

ZELM 12 ATEX 0499 X

- (4) Equipment: **TETRA Messenger VIPER TME Ex**
- (5) Manufacturer: **Oelmann Elektronik GmbH**
- (6) Address: **Allerfeldstr. 17, D-31832 Springe**
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The Prüf- und Zertifizierungsstelle ZELM Ex, notified body No. 0820 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 ZELM Ex 0181225943.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2009 EN 60079-11:2012**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this Certificate.
- (12) The marking of the equipment shall include the following:



II 2G Ex ib IIC T4 Gb

Braunschweig, 2013-01-31

ZELM ex

**Zertifizierungs-
stelle**

Zertifizierungsstelle ZELM EX
Dipl.-Ing. Harald Zelm



Sheet 1 of 3

EC-type-examination Certificates without signature and stamp are not valid. The certificates may only be circulated without alteration. Extracts or alterations are subject to approval by the Prüf- und Zertifizierungsstelle ZELM EX. The English version is based on the German text. In the case of dispute, the German text shall prevail.

ZELM ex
Prüf- und Zertifizierungsstelle
Siekgraben 56 · D-38124 Braunschweig

(14) EC-TYPE-EXAMINATION CERTIFICATE ZELM 12 ATEX 0499 X

(15) Description of equipment

The main subject of this EC-Type-Examination is the TETRA Messenger VIPER TME Ex with associated desktop charger and wall power supply. The TETRA Messenger VIPER TME Ex is a TETRA messenger equipped with a radio back-channel (2-way-pager) intended to use as receiver and sender into the TETRA infrastructure. Sending and receiving is limited to short data service (SDS) respectively data blocks and is used to alarm and communicate to security or service staff. The alarms can be effected acoustically, optically as well by vibration.

One possible variation consists of an optional module with a GPS-receiver and a motion sensor with the functionality of position control and emergency functions.

The device is suitable for the use in explosive hazardous areas which require category 2 equipment.

The messenger consists of a liquid crystal display, four buttons and an interface used for data transfer and as well to charge the built-in battery in the associated desktop charger type 261.0200. It's allowed to use a natural leather case.

It's only allowed to use the TETRA Messengers VIPER TME Ex with the associated battery pack type JBA260.9909.01 from Oelmann Elektronik GmbH. The desktop charger type 261.0200 has only to be used with the power supply FW7601/05 from FRIWO.

Operation and charging inside of the desktop charger is only allowed outside of hazardous environments.

Permissible temperature range TETRA Messenger VIPER TME Ex:
 $-10^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$

Ingress protection TETRA Messenger VIPER TME Ex: at least IP 20

Permissible temperature range desktop charger:
 $0^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

Electrical Data

Power supply voltage	$U_n = 100 \text{ V} - 240 \text{ V AC}$
Maximum output voltage	$U_o = 5.5 \text{ V DC}$
Maximum output current	$I_o = 1 \text{ A}$
Power supply of the messenger	Li-Ion battery pack 3,7 V 2200 mAh Type: JBA260.9909.01 Producer: Oelmann Elektronik GmbH
Relay output desktop charger	
Isolated contact	$U = 12 \text{ V}, I = 1 \text{ A}$
Maximum r.m.s. a.c. or d.c. voltage	$U_m = 12 \text{ V}$

**Schedule
to EC-Type-Examination Certificate ZELM 12 ATEX 0499 X**

ZELM ex

(16) Report No.

ZELM Ex 0181225943

(17) Special conditions for safe use

1. It's only allowed to use the TETRA Messengers VIPER TME Ex with the associated battery pack type JBA260.9909.01 from Oelmann Elektronik GmbH
2. The desktop charger type 261.0200 has only to be used with the power supply FW7601/05 from FRIWO.
3. Programming, charging, battery replacing or battery removing is only allowed outside of hazardous areas.
4. Before replacing the battery the serial number on the sticker on the messenger's battery compartment with the serial number from the battery cover plate has to be compared. Only the battery cover plate with the same serial number has to be reinstalled. If there is no possibility to compare the serial numbers it's not allowed to reuse the messenger. The battery cover has to be secured with two screws.
5. Before entry of hazardous areas the messenger VIPER TME Ex has to be powered on and a function test has to be performed.
6. It's allowed to use an optional natural leather case.
7. The instruction manual has to be observed.


(18) Essential Health and Safety Requirements

Fulfilled by standards.

Braunschweig, 2013-01-31

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