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Note:

The current operating instructions, EU Declaration of Conformity and the Ex-certificate are available for download from the relevant product page under **www.ecom-ex.com**, or alternatively they can be requested directly from the manufacturer.

1. Introduction

The Ex-Time 40 is a quartz movement wall clock designed for industrial application in areas with an increased risk of explosion in zones 1 and 2, in accordance with directive 1999/92/EC (ATEX 137).

2. Safety Advice

These Operating Instructions contain information and safety regulations which must be followed to ensure safe and reliable operation of the unit under the described conditions. Failure to follow the information and instructions contained in these Operating Instructions can have dangerous consequences or may violate applicable rules and regulations.

Please take the time to carefully read through these Operating Instructions before you start using the unit.

In the event of any doubt or discrepancies (e.g. due to errors in translation and/or printing), the original German language version of the Operating Instructions should be referred to.

3. Faults and Damage

If there is any reason to suspect that the safety or integrity of the unit has been compromised, then it must be taken out of operation immediately and removed from the Ex-zone without delay.

Precautionary measures must be taken in order to prevent any further use of the unit in the Ex-zone. It is recommended that the unit should be then sent to the manufacturer to be examined.

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

- External damage is evident on the housing.
- The unit has been subjected to excessive loads for which it is not designed.
- Incorrect storage of the unit.
- Damage sustained in transit.
- Correct certification is illegible.
- Functionality errors occur.
- Permitted tolerances or threshold values have been exceeded.

4. Safety Regulations

Use of this unit assumes that the operator observes conventional safety regulations and has read the certificate in order to eliminate faulty operation of the unit.

The following safety regulations must be complied with:

- The housing of the quartz mechanism and the battery compartment must not be opened within the Ex-zone.
- The battery must only be changed outside of the Ex-zone.
- Additional or spare batteries must not be carried in the Ex-zone.
- Only the "type-approved" batteries as listed in these Operating Instructions may be used.
- Ensure that Ex-Time 40 units are securely attached to the wall.
- It must be ensured that the clock does not accidentally fall into zone 0.
- The clock should only be cleaned with a damp cloth.

5. Ex-Data

EC Certificate of Conformity no.: PTB 02 ATEX 2197 X

Ex-Designation Ⓢ II 2 G Ex ia IIC T4

Approved for areas classified as zones 2 and 1, device group II, Explosion group IIC potentially explosive gases, vapours or mist, temperature class T4



Report job identification no.: 3015562

FM identification: I.S. Class I Division 1 Group A-D T4

Intrinsically safe for use in a Class I, Division 1, Groups A, B, C & D with a Temperature Class of T4 hazardous (classified) locations.

6. Technical Data

Ambient temperature Ta: 0°C ... +50°C
Storage temperature: 0°C ... +50°C
Battery / power supply: 1 x LR14 acc. to IEC
Battery operating time: approx 2 years
Accuracy of quartz mechanism: +15/-5 seconds per month
Dimensions: 400 x 60 mm
Weight (incl. batteries): 2.0 kg
CE labelling: **CE** 0102

6.1 Table with type-approved batteries

Manufacturer	Type
Varta	High Energy No.4914
Varta	Industrial Alkaline No.4014
Rayovac	Maximum Plus LR14
Duracell	Plus Alkaline MN1400
Duracell	Procell Alkaline MN1400
Panasonic	Powerline Industrial Alkaline LR14

7. Use and Application / Operating Instructions

Before use, please read these operating instructions very carefully in order to familiarise yourself with the functions of the Ex-Time 40. For your own safety and information, please read the following instructions.

7.1 Commissioning

Use an appropriate screwdriver to undo the two screws on the battery compartment cover (on the opposite side from the quartz mechanism). Remove the battery compartment cover and insert a battery of the correct type (LR14) (refer to the table under section 6.1 – Table with type-approved batteries) into the battery compartment. Please refer to the diagram on the housing to make sure that battery is inserted with the correct polarity. Refit the battery compartment cover (the spring faces towards the battery), refit the battery compartment cover screws and tighten securely. Then use the white adjusting wheel on the housing of the clockwork mechanism in order to set the correct time.

7.2 Changing the battery

To change the battery, use an appropriate screwdriver to undo the two screws on the battery compartment cover. Remove the battery compartment cover and dispose of the old battery. Insert a new battery (only use type-approved batteries ' refer to the table under section 6.1 – Table with type-approved batteries; check for correct polarity ' check the diagram on the battery housing). Refit the cover to the battery compartment (the spring faces towards the battery) and secure it with the two screws. The clock will now start to run again. Then use the white adjusting wheel on the housing of the quartz mechanism in order to set the correct time.

Please ensure that all used and defective batteries are properly disposed of in an environmentally friendly manner.

7.3 Wall Mounting

An integral metal bracket located on the rear of the clock enables the Ex-Time 40 to be suitably mounted on an appropriate wall. The fixing of the unit must be secure at all times and precautionary measures must be taken to prevent the Ex-Time 40 from falling into an area classified as zone 0. For reasons of electrostatic discharge, completely insulated mounting – e.g. on a purely plastic wall – is to be avoided.

7.4 Time Setting

The white adjusting wheel on the quartz mechanism is used to make any necessary time adjustments.

8. Repairs

Repair work is subject to the nationally valid regulations and directives. We therefore recommend that such work be performed by ecom instruments GmbH, Germany, as all repairs must be examined to ensure functional safety.

9. Disposal

Old electrical devices as well as „historical“ old electrical devices from ecom instruments GmbH are supplied for disposal at our expense and disposed of free of charge in accordance with European Directive 2002/96/EC and the German electrical law of 16/03/2005. The costs associated with returning devices to ecom instruments GmbH are to be borne by the sender.

In accordance with “Directive 2006/66/EC on batteries and accumulators and waste batteries” we are obligated to provide you with the following information:


Your device contains an alkaline battery.

Depleted batteries should never be disposed of along with normal or household waste. Old batteries can contain harmful substances that are hazardous to health and damaging to the environment.

Please return the batteries. Return is free of charge and required by law. Please only dispose of discharged batteries in the designated containers.

Note: The battery used in this unit poses a fire hazard and can cause chemical injuries if it is used improperly. Neither the battery nor the battery cells should be opened or disassembled and they should not be burned or exposed to temperatures exceeding 100°C. If the battery needs to be disposed of, it can be removed as described under point (4). The disposal regulations specified above are also applicable for old devices. All batteries can be recycled. Precious raw materials such as iron, zinc and nickel can therefore be reused.



The symbol  has the following meaning: Batteries and rechargeable batteries should not be disposed of along with normal or household waste.

10. Cleaning, Maintenance and Storage

- The entire back face of the unit must only be cleaned with a damp cloth
- Do not use solvents or abrasive cleaning agents to clean the unit.
- The batteries should be taken out of the unit if it is to be out of use for a length of time.
- The storage temperature should be within the permitted range of 0°C to +50°C.

11. Guarantee and Liability

As per the general terms and conditions of business, ecom instruments GmbH offers a 2-year warranty for the functioning and materials of this product under the specified operating and maintenance conditions. This does not cover all wearing parts (e.g. batteries and lamps).

This warranty does not extend to products that have been used improperly, altered, used negligently, damaged by accident or subjected to abnormal operating conditions or improper handling. Warranty claims can be asserted by sending the defective device. We reserve the right to re-calibrate, repair or replace the device. The above warranty terms represent the sole rights of the purchaser for compensation and apply exclusively and in place of all other contractual or statutory warranty obligations. ecom instruments GmbH does not accept liability for specific, direct, indirect, incidental or consequential damages or losses, including the loss of data, regardless of whether they are caused by breach of warranty, lawful or unlawful actions, actions in good faith or other actions.

If the restriction of statutory warranty and the exclusion or restriction of incidental or consequential damages is unlawful in certain countries, then it may be possible that the above restrictions and exclusions do not apply for all purchasers. If any clause in these warranty terms is found to be invalid or unenforceable by a competent court, then such a judgement shall not affect the validity or enforceability of any other clause contained in these warranty terms.

12. EU-Declaration of Conformity

The EU Declaration of Conformity and the certificate are enclosed with the sales packaging as a separate document. Please also observe the information provided underneath the table of contents. The current EU Declaration of Conformity can be downloaded from the relevant product page at www.ecom-ex.com.

13. EC type approval test certificate / Certificate of Compliance

The Ex-certificate and the certificate of compliance are enclosed with the sales packaging as a separate document. The current certificates can be downloaded from the relevant product page at www.ecom-ex.com.