

## ZERO.1 BATTERY REPLACEMENT

### ZERO.1


**CE 2460**
**TUV IT 14 ATEX 013 X**  
**II 1G Ex ia IIB T3 Ga**  
 $(-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C})$ 

The following procedure describes, step by step, how to safely replace the ZERO.1 battery.

Follow the instructions carefully, use only the recommended tools, and always work in a safe area away from liquids or flammable materials.

	<p>1. The battery must be replaced in a safe area. Remove the Zero.1 from the tank and take it to a safe area.</p>
	<p>2. Open the ZERO.1 casing by removing the 6 screws (use a Torx T6 screwdriver).</p>
	<p>3. Remove the battery from its housing, taking care not to pull on the connection wires.</p>
	<p>4. Carefully disconnect the battery connector from the electronic board, pulling on the connector itself and not on the wires.</p>
	<p>5. Connect the new battery to the electronic board and place it correctly inside the casing.</p>
	<p>6. Close the casing and tighten the 6 screws.</p>

### INSTALLATION RECOMMENDATIONS AND SAFETY PRECAUTIONS

The manufacturer assumes no responsibility for incorrect or improper use of the device and/or failure to comply with the safety instructions provided.

The device must be installed in conditions where it cannot be covered by snow or water.

Zero.1 is suitable for operation in a hazardous area (Zone 0) according to the marking:

**II 1 G Ex ia IIB T3 Ga**  
 $U_o=4.1\text{V}$   $I_o=4.1\text{mA}$   $P_o=17\text{mW}$   $C_o=999\mu\text{F}$   $L_o=1\text{mH}$   
 $U_i=4.1\text{V}$   $I_i=4.1\text{mA}$   $P_i=17\text{mW}$   $C_i=1\mu\text{F}$   $L_i=1\text{uH}$

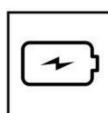
Operating ambient temperature range:  $-40^{\circ}\text{C} \leq \text{Ta} \leq +70^{\circ}\text{C}$ .

With reference to the above-mentioned ATEX marking:

- Belongs to Group II (electrical equipment of Group II is intended for use in locations with explosive atmospheres due to the presence of gases other than mines with possible presence of firedamp)
- Category 1 (suitable for ATEX Zone 0)
- EPL Equipment Protection Level is Ga (dual failure)
- Gas Group IIB
- The temperature range is T3 (200°C).
- Atex parameter for digital/analog inputs  
 $U_o$   $I_o$   $P_o$   $C_o$   $L_o$   $U_i$   $I_i$   $P_i$   $C_i$   $L_i$



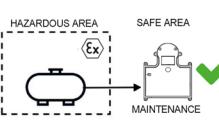
! Do not rub or scratch the plastic casing of the device to prevent the buildup of electrostatic charges (see label on the casing of Zero.1)



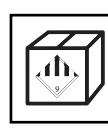
Use only approved batteries provided by the manufacturer.  
Install and/or replace the battery in a safe area after removing Zero.1 from its mounting and taking it to a safe area at least 2 meters away from the Hazardous Area.



Adhere to ESD precautions.  
Do not place the device without its enclosure on conductive surfaces; it could be irreparably damaged even if the battery is not connected.



Interventions in Hazardous Areas must be carried out by qualified and authorized personnel. The manufacturer reserves the right to verify that the personnel assigned to this function are adequately trained through specific audits that may be planned in accordance with the management.



In case of shipment be sure to comply with the provisions for products classified Dangerous Goods in compliance with the latest edition of IATA air and road ADR regulations, with reference to hazard class 9 - UN3091 P.I. 970.  
P.S.: The above regulations refer to batteries contained in the device.

Disposal and recycling of the device, packaging, and manual:

	Electronic device	Dispose of as electronic waste at a facility authorized for RAEE treatment	
	Packaging		Manual /Guide

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**ATTENTION:** Is necessary to wait at least one hour after replacing the battery before testing the device, as the circuit contains a rechargeable battery that needs time to recharge.