

# MAINTENANCE

WI Line | PROTECTION TECHNOLOGY  
MADE SIMPLE

WIP1 | MAINTENANCE - EXCHANGING THE BATTERY



## MAINTENANCE - EXCHANGING THE BATTERY

Original document

English

Revision: A

# 1. Comments on the manual

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This manual explains in general the exchange of the battery for the WIP devices.

The manual serves as working basis for:

- Engineers in the protection field,
- commissioning engineers,
- people dealing with setting, testing and maintenance of protection and control devices,
- as well as trained personnel for electrical installations and power stations.

All functions concerning the type code will be defined. Should there be a description of any functions, parameters or inputs/outputs which do not apply to the device in use, please ignore that information.

All details and references are explained to the best of our knowledge and are based on our experience and observations. This manual describes the (optionally) full featured versions of the devices.

All technical information and data included in this manual reflect their state at the time this document was issued. We reserve the right to carry out technical modifications in line with further development without changing this manual and without previous notice. Hence no claim can be brought based on the information and descriptions this manual includes.

Text, graphic and formulas do not always apply to the actual delivery scope. The drawings and graphics are not true to scale. We do not accept any liability for damage and operational failures caused by operating errors or disregarding the directions of this manual.

No part of this manual is allowed to be reproduced or passed on to others in any form, unless has approved in writing.

This user manual is part of the delivery scope when purchasing the device. In case the device is passed on (sold) to a third party, the manual has to be handed over as well.

Any repair work carried out on the device requires skilled and competent personnel who need to be well aware especially of the local safety regulations and have the necessary experience for working on electronic protection devices and power installations (provided by evidence).

## 1.1 Information Concerning Liability and Warranty

does not accept any liability for damage resulting from conversions or changes carried out on the device.

Except for changing the battery, the warranty expires after a device has been opened by others than specialists.


Warranty and liability conditions stated in the General Terms and Conditions of are not supplemented by the above mentioned explanations.

## 1.2 IMPORTANT DEFINITIONS

The signal definitions shown below serve the safety of life and limb as well as for the appropriate operating life of the device.

 **DANGER** DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING** WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION** CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 **NOTICE** NOTICE is used to address practices not related to personal injury.

 **CAUTION** CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

## 2. Maintenance – Changing the Battery

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The relay is buffered by a battery for feeding the LC display as well as for memorizing fault values and reset of the trip relay. Failure of the battery has no effect on the protective functions of the relay. The battery has a service life of several years.

The battery is housed underneath the front cover of the relay at the lower right corner and is fastened by plug terminals.

**The following instructions are mandatory for the safe replacement of the battery.**

Before changing the battery on a WIP it is imperative that the complete device is dead and the following 5 safety regulations are always met:

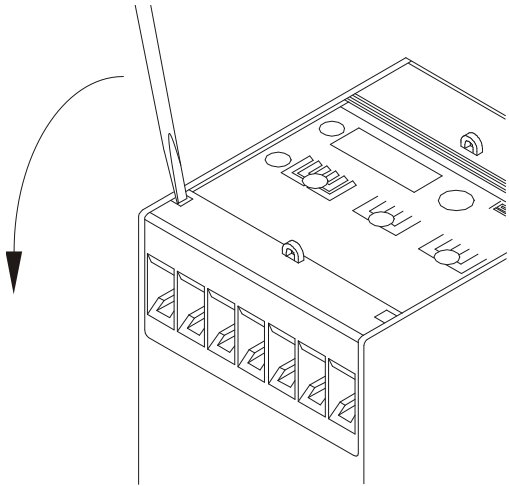
 **WARNING** Hazardous Voltage

**Battery contacts behind front cover may cause electric shock.**

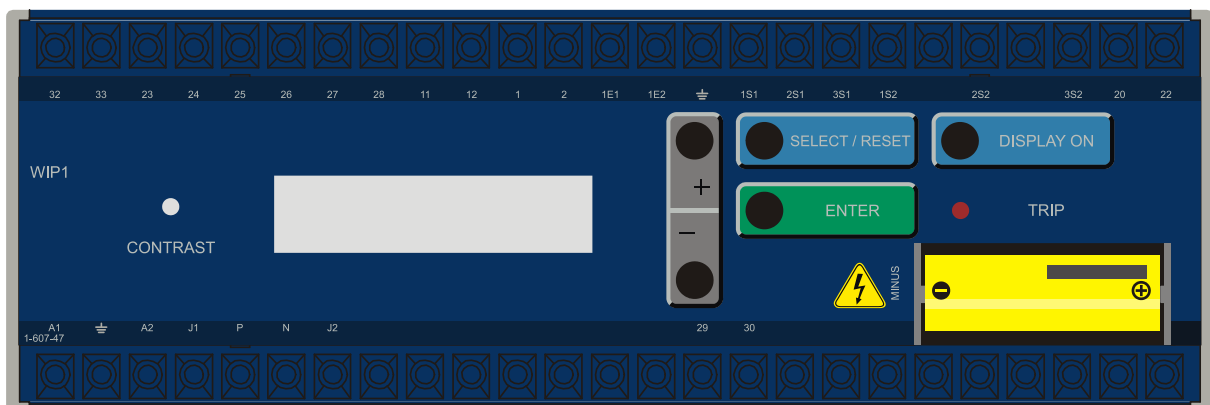
- **Disconnect from all power (supply) sources**
- **Secure against reconnection**
- **Verify if the equipment is dead**
- **Connect to ground and short-circuit all phases**
- **Cover or safeguard all live adjacent parts**

1. Do not start any maintenance work unless before the entire equipment is dead according to the WARNING/safety instructions above.
2. Open the Front Cover with a fully isolated screw driver.

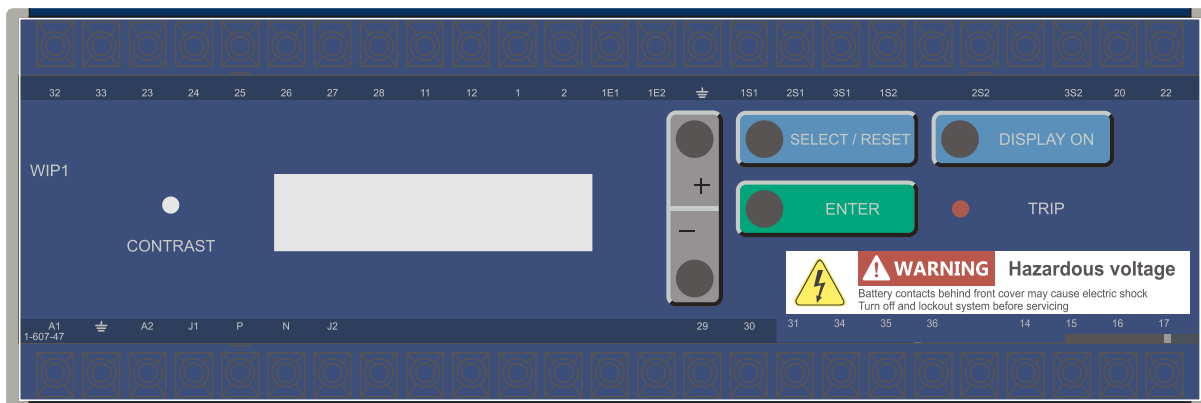
**Do not use force!**



3. Carefully remove the battery by means of a fully isolated screw driver out of the plug terminals. Replace the battery. Ensure the correct polarity.



#### 4. Close the front cover again

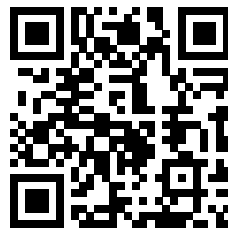


### NOTICE

The waste disposal of the removed battery must be compliant with local laws and standards (e.g. the European battery directive 2006/66/EG).

# WI Line

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