

# Changelog V 1.22

## EOR-1DS

Directional earth fault and short circuit  
indicator



09/2022

Firmware V1.22

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# 1. General

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## 1.1 Content

This document contains information and changes about the released firmware versions for the earth fault and short circuit indicator EOR-1DS since firmware version V 1.21.

## 2. Change information

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### 2.1 Version 1.22 from 21.09.2022

#### General

- Optimized relay control in HW 19 (downgrade to FW <V1.22 blocked)
- Default parameter edited
- Optimized power consumption in capacitor operation (without power supply)
- Short circuit to earth available in Comtrade
- Device name changed from EOR-1D to EOR-1DS in Comtrade

#### SCADA

- Modbus register mapping “SNH” corrected to version “SNH 1.7”

### 2.2 Version 1.21 from 01.08.2022 (comp. to EOR-1D Version 42)

#### General

- New additional relays 3&4 parameterizable
- Relay 1 as status / life contact useable
- Parameters “battery alert” and “battery reset” are removed due to the application of a long life capacitor
- New parameters “display configuration”
  - OLED time out
  - Brightness
- Power values P, Q and S are indicated on the display and MODBUS
- New parameter I/O configuration for sum current
  - Selection between calculated or measured
- New parameter I/O configuration for phase current
  - SR55
  - Clip on CT with entering transformer ratio
  - Low power with entering the primary and secondary voltage
- New parameter I/O configuration for voltage input
  - LRM
  - Low power with entering the primary and secondary voltage
  - U10 with entering transformer ratio
- Supporting an additional blinking lamp with directional indication (BL7)

#### Location Methods

- New location method short circuit to earth with following parameters
  - Trip current
  - Response delay
  - Reset time
- IO measurement supported (for transient detection and short circuit to earth)

- Fixed defined angles for directional indication short circuit/ short circuit to earth
- Angle definition changed to  $\varphi = \varphi_U - \varphi_I$  (comparable to EOR-3DS)

#### **SCADA**

- New isolated Modbus driver module: “auto on/off” replaced with “delayed off” with settable delayed off time in case of permanently interrupted supply voltage
- Register for displaying the power values implemented (standard register 260..289)
- Extension of the register for relays 3+4 (standard register 452/470..476)
- Adjustment of the status register (standard register 203) for the new functions
- Extension of the register for short circuit to earth (standard register 2/10/203/228)