Earth fault and short circuit indicator EOR-1D

Version information firmware V 44

model EOR-1D

Contents

1. General

1.1 Content

This document contains information and changes about the released firmware versions for the earth fault and short circuit indicator EOR-1D since firmware version V34.

2. Change information

2.1 Version 44 from 07.08.2023

General

- Bugfix: Watchdog Timer (reset after 17 minutes when the status is faulty)
- The logs were extended with a daily entry and an entry for every reboot after a firmware update or device restart. The reason for the reboot is included in the log entry.

2.2 Version 42 from 07.09.2021

General

- Bugfix: problems during boot process (remove of battery separator or insert of a new battery) without power supply and inserted SD-card fixed

Location Methods

SCADA

2.3 Version 40 from 20.08.2021

General

- Bugfix: In battery mode the red LED is now not blinking any more in the case of missing voltage calibration (and activated voltage measurement). When power supply is connected to the device the red LED is still blinking in this case.
- Bugfix: External test via binary input is now working correctly (analog to Modbus register 204)

Location Methods

SCADA

- „SNH"-Modbus register 16 and 17 revised, so that also single-phase short circuits are signalled
- Different Modbus modes added (menu 1.1.3.2.5)
  - Standard mode (as before)
  - Modbus always disabled
  - Modbus disabled in case of no power supply (battery mode)

2.4 Version 38 from 27.01.2021

General

- All relay functions can now be set freely to the relays, order of relay functions changed
- Renaming of write and read of parameters on/from SD-card:
  → NEW: "Conf. SD --> EOR" / "Conf. EOR --> SD"
- Improvements in English translations
- Parameters >Uearth trip value, >Uearth reset time moved from folder „transient det." to folder „General"
- Min/Max values of parameter >Ueath trip value changed to 1-90% (before 10-30%)
- Rearrangement of qu2-transient detection menue
- Current Reset moved from folder „Autom. Reset"to folder „Short Circuit" and folder „Autom. Reset" deleted, because used only for short circuit detection
- Separate log book entry "SC resetted by current" (up to now the logbook entry was also "SC reset time passed")
- Folder "transient det." completly hidden in case the voltage measurement is disabled (up to now the folder was only renamed „deactivated")
- Bugfix: Empty sub menu after self test without supply voltage
- Bugfix: "A.Eberle menue" for 0.5s at display start in case of a fault
- Bugfix: Arrows for fw/bw for phase L3 are not displayed on initial fault display
- Bugfix: Display does not start in case initially only with battery supply a test is triggered, i.e. after a cold start of the device no supply voltage has been applied yet
- Bugfix: With a cold start of the device in battery mode the device gets stuck in a undefined state (Display black, green LED is lit)
- Bugfix: A test in battery mode triggers a COM-trade log and sporadic fault indications

Location Methods

- qu2-transirent detection is now evaluated and indicated also phase selective
- dI/dt function completely deactivated (Display, Com-Trade, log book, simulation/test)

SCADA

- „Standard" Register 30: only value „0" possible for di/dt
- „Standard" Register 33: permissible value range 1-90%
- „Standard" Register 203: qu2-transient indication (phase selective)
- „Standard" Register 204+224..227+251: modifications for phase selective qu2 trans. det.
- „Standard" Register 450+451: permissible value range changed from 255 to 4095
- „Standard" Register 450+451: order of bits changed due to change of order of relay functions
- „SNH" Register 11, 12, 13 extended by phase selective qu2-transient detection
- „SNH" Register 8000 bugfix: Only SC is indicated in case of battery mode

2.5   Version 36 from 03.02.2020

General

-   Display extended with qu2 transient algorithm
-   Overview with the activated methods
-   Self-test added
-   Nominal voltage setable
-   Cancellation in each menu possible
-   Log entries extended by qu2 transient algorithm
-   Revision of the Comtrade log
    (I0, U0, language-dependent, trigger event is set, date is correct, BAFs added)
-   Zero sequence values added to display overview

Location Methods

-   qu2 transient algorithm implemented
-   di/dt-method has been removed

SCADA

-   Modbus register added for the qu2 transient algorithm

2.6 Version 34 from 26.02.2019

General

- Revision of the Comtrade log
- log-entry when battery is empty
- Message when the battery is empty at 9:00 a.m.
- Cancellation- screen during voltage calibration

Location Methods

SCADA

- SNH register available under register assignment
- Minimum baud rate changed to 9600