

Our short-circuit and earth fault indicators as an essential building-block in substations & secondary substations

Our short-circuit and earth fault indicators make it possible to combine the advantages of different location methods. This makes it possible for the first time to prioritise and weight the methods in order to perfectly match them to the respective application. This combination makes our devices particularly suitable for use in secondary substations. Of course, these advantages also come into play directly in the substation.

Quick Comparison EOR-IDS vs. EOR-3DS: Find the right short-circuit and earth fault indicator for your application.



EOR-IDS

The fault indicator for analog secondary substations

Available location methods

qu2 transient algorithm
Transient earth fault method

Directional short-circuit and earth fault detection

Pulse location

X

In preparation for EOR-IDS

X

In preparation for EOR-IDS

X

X

Software

Simple operation and parameterisation without software

X

X

Fault records and logbook

Yes, with flash memory up to 32 GB

Voltage measurement

Capacitive in parallel with VDS systems, low power sensors (two-wire technology) and classic transducers

Current measurement

Rogowski folding transducers, low power sensors (two-wire technology) and classic transducers

SCADA / Communication

Modbus RTU

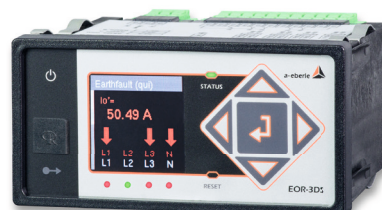
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X

X

Applicable as a digitisation unit for digital secondary substations

X



EOR-3DS

The fault indicator for digital secondary substations

Available location methods

qu2 transient algorithm
Transient earth fault method

Directional short-circuit and earth fault detection

Pulse location

Wattmetric method $\cos(\varphi)$

Reactive power direction $\sin(\varphi)$

qui-Method Restriking faults

Harmonics method

Software

Open setup as required with »AEToolbox« software

Certificate handling, user/role concept and encrypted connections

Extensive cyber security features

Fault records and logbook

Yes, with flash memory up to 32 GB

Voltage measurement

Capacitive in parallel with VDS systems, Low power sensors (two-wire technology or RJ45) and classic transducers

Current measurement

Low power sensors (two-wire technology or RJ45) and classic transducers

SCADA / Communication

Modbus RTU/TCP (Incl. „Modbus Master“)

IEC 60870-5-101/104, IEC 60870-5-103 incl. fault records, IEC 61850 GOOSE, DNP 3.0

MQTT Management & Operations

MQTT IoT

Applicable as a digitisation unit for digital secondary substations

MQTT protocol for centralised firmware rollouts as well as remote mass parameterisation & data transfer to control centre in IIoT environment

Find out more at: www.a-eberle.de/EOR-IDS-Info

Find out more at: www.a-eberle.de/EOR-3DS-Info

Do you have any questions about our combined short-circuit and earth fault indicators or any other enquiries? Contact us at sales@a-erberle.de or scan the code:

