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-1DS vs. EOR-3DS: Find the right short-circuit and earth fault indicator for your application.

EOR-1DS

The fault indicator for analog secondary substations

EOR-3DS

The fault indicator for digital secondary substations

EOR-1DS	EOR-3DS
Available location methods	**Available location methods**
qu2 transient algorithm Transient earth fault method	qu2 transient algorithm Transient earth fault method
Directional short-circuit and earth fault detection	Directional short-circuit and earth fault detection
Pulse location	Pulse location
X In preparation for EOR-1DS	Wattmetric method cos(φ)
X In preparation for EOR-1DS	Reactive power direction sin(φ)
X	qui-Method Restriking faults
X	Harmonics method
Software	**Software**
Simple operation and parameterisation without software	Open setup as required with »AEToolbox« software
X	Certificate handling, user/role concept and encrypted connections
X	Extensive cyber security features
Fault records and logbook	**Fault records and logbook**
Yes, with flash memory up to 32 GB	Yes, with flash memory up to 32 GB
Voltage measurement	**Voltage measurement**
Capacitive in parallel with VDS systems, low power sensors (two-wire technology) and classic transducers	Capacitive in parallel with VDS systems, Low power sensors (two-wire technology or RJ45) and classic transducers
Current measurement	**Current measurement**
Rogowski folding transducers, low power sensors (two-wire technology) and classic transducers	Low power sensors (two-wire technology or RJ45) and classic transducers
SCADA / Communication	**SCADA / Communication**
Modbus RTU	Modbus RTU/TCP (Incl. „Modbus Master“)
X	IEC 60870-5-101/104, IEC 60870-5-103 incl. fault records, IEC 61850 GOOSE, DNP 3.0
X	MQTT Management & Operations
X	MQTT IoT
Applicable as a digitisation unit for digital secondary substations	**Applicable as a digitisation unit for digital secondary substations**
X	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-1DS-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:

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