

CAPDIS-PI (R4)

Voltage Detection System (VDS) for retrofitting

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VDS for retrofitting of medium voltage switchgears

Transformation of HR or LRM interfaces to integrated voltage detection systems acc. IEC 61243-5

Retrofit without interfering the switchgear

Retrofitting of all HR and LRM interfaces acc. IEC 61243-5 possible

CAPDIS-PI-Retrofit for retrofitting of aged interfaces ,

whose electrical values are not acc. IEC 61243-5 anymore

No battery

Voltage detection and self-test without auxiliary power or battery

Free of maintenance

Isolation monitoring of C1 at primary side of capacitive divider

Early warning of isolation problems at primary C1 capacity

Integrated self-test

For voltage detection no additional counter check is necessary

Self test acc. Patent DE103 04 396

Integrated three-phase measurement interface

LR interface for phase comparison and rotary field detection integrated

Optional interface to fault detector "Grid-Inspector IKI-50"

Can be used for voltage measurement of primary voltage without PTs.



before: HR-interface
- Maintenance test required
- Voltage detection only with counter check



Installation: 1 min.



after: CAPDIS-PI-HR
- No maintenance
- Integrated self-test
- Longer lifespan



CAP-LINE



CAPDIS-PI (R4)

Voltage Detection System
(VDS) for retrofitting



Technical data

LCD indications:

Applied norm: IEC 61243-5

Indication LCD	Indication du ing no mal ope a ion wi h nominal vol age	Explana ion	Indica ion du ing b ing in o se vice wi h nominal vol age	Indica ion wi h p esed es bu on
	Ove vol age	Is ati n pr b em at primary part f divider r $U >> 1,2xUn$	$C2m < Min.$	Capdis o.k.
	Nominal vol age p esen	Signal ok Isola ion ok $U > 0,45xUn$	$C2m$ co ec	interna err r
	Vol age p esen	Is ati n pr b em at sec ndary part f divider $0,1xUn < U < 0,45xUn$	$C2m > Max.$	interna err r
No indica ion	No vol age	Sh rt-circuit at c nnecting eads $U < 0,1xUn$	$C2m >> Max.$	interna err r

Requirements:	HR or LRM interface at switchgear
Measurement interface:	LR at front of CAPDIS-PI
Housing:	Plastic
Dimensions:	hwxwd = 52x111x38 mm
Protection degree:	IP 54
Self-Test:	via self-test button (without battery or auxiliary power)
Phase comparison:	via LR or LRM phase comparators acc. IEC 61243-5 (e.g. CAP-Phase)

VERSIONS

CAPDIS-PI-HR(R4) for HR-interface:	Item-No.: 2501382
CAPDIS-PI-LRM(R4) für LRM-interfaces:	Item-No.: 2501383
CAPDIS-PI-RR4 Retrofit:	Item-No.: 2501384

CAPDIS-PI-RR4 Retrofit can be used as voltage sensor for directional fault detection via "Grid-Inspector IKI-50" or to retrofit HR interfaces whose electrical values are not acc. IEC 61243-5 anymore.



before: maintenance check current below 3,2uA



Retrofit: 10 Min.



after: Voltage detection system fully conformance to IEC 61243-5 with voltage interface to IKI-50