# CAPDIS-S2+

Integrated capacitive voltage

Monitoring system with relay contacts



#### Voltage detecting system (VDS) for high voltage

Detection of voltage condition in high voltage equipment according to IEC61243-5. Integrated continuous three phase voltage indication.

#### No battery required

For voltage detecting and self test no external power supply or battery is required.

#### Completely free of maintenance

The device performs a permanent online insulation measuring.

### Inherent safety

The CAPDIS-S2+ includes a self test which offers inherent safety, no external test device is required.

Optional broken signal lead detection

#### Relay outputs

For remote monitoring of voltage condition two relay contacts are integrated. The relays are driven by auxiliary voltage.

#### Integrated 3-phase test point

Acc. to the LR-specification in IEC 61243-5.

The test point can be used for phase comparison and phase sequence test.

#### Integrated U0-interface



For easy intallation of earth-fault direction relay IKI-EDI-W or partial discharge monitoring.









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Monitoring system with relay contacts

#### Function and technical data CAPDIS-S2+

Applied standard: IEC 61243-5 (integrated voltage detecting system)

Indication per phase:

- U < 10% of  $U_N$ no voltage

• active O

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10% of  $U_N \le U \le 45\%$  of  $U_N$  voltage present

• half arrow

4

internal test passed nominal voltage is present maintenance test passed

—> full arrow

4

pressed test button

display function test

-> framed full arrow

-> ERROR

-> relay1 on

-> relay2 on

4

-> framed full arrow

-> relay1 and 2 off

-> relay1 and 2 on

Test button function: - Test passed

- Fault: signal lead broken or no auxiliary voltage

Relay functions: L1 or L2 or L3 = 1, at least 1 phase with U>10% of  $U_N$ 

L1 or L2 or L3 = 0, at least 1 phase with U<10% of  $U_N$ 

broken signal lead or no auxiliary voltage present

earth-fault or asymmetry

Auxiliary voltage: 24 VDC +/- 10%, galv. insulated!

Power consumption: < 1 W

Switching - power of relays: 250 VAC, 5 A / 30 VDC, 5 A / 250 VDC, 0.3 A

Housing: front panel mounting, plastics Dimensions:  $hxwxd = 48 \times 96 \times 37 \text{ mm}$ 

Recommended cut:  $h \times w = 45 \times 92 \text{ mm}$ Operating temperature:  $-25^{\circ}\text{C to } +55^{\circ}\text{C}$ Storage temperature:  $-30^{\circ}\text{C to } +70^{\circ}\text{C}$ 

Protection class: IP 54

Connectors for signal leads: fast-on receptacles 4.8 x 0.8 mm

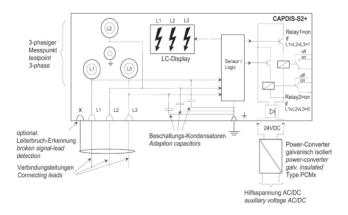
Required data for order: rated voltage UN

capacitance of coupling electrode C1

Part number: 2500746 (CAPDIS-S2+ without signal lead test)

2500753 (CAPDIS-S2+ with signal lead test)

2500743 (Multi voltage power supply PCMKi, input 24..230 VAC/DC, output 24 VDC)



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