CAPDIS-S1+(R4)

FAIL-SAFE

Integrated capacitive voltage detecting system

Fail-Safe-Functions

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, no maintenance required

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

Complete isolation monitoring of capacitive divider

Primary and secondary isolation monitoring and of capacitive divider.
Isolation problems are indicated on display.

Inherent safety

The CAPDIS-S1+ includes a self test which offers inherent safety; no external test device is required. Self test function according patent DE103 04 396.
The test is activated by the Test-button and does not need any auxiliary supply.
This test allows to distinguish between voltage absence and any device fault. This test is mandatorily for safe detection of voltage absence!
Optional broken signal lead detection.

Adjustable for Smart-Grid applications

Secondary part of capacitive divider is adjustabel by user. Correct adjustment is important to use Capdis in combination with Smart-Grid Systems like IKI-50.
Six steps to set the correct value are available. In case of a non-correct setting, the mismatch is indicated.

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 UO-interface

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

Integrated Y-Interface

To connect Capdis to Smart-Grid Systems like IKI-50 or IKI-20a.

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CAPDIS-S1+(R4)

FAIL-SAFE

Integrated capacitive voltage detecting system

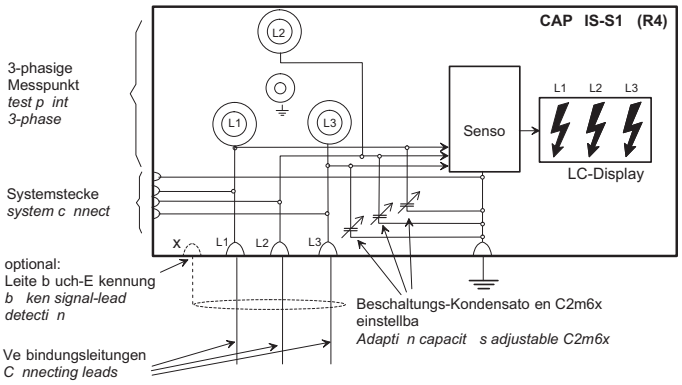
Function and technical data CAPDIS-S1+_R4

universal C2m-Module

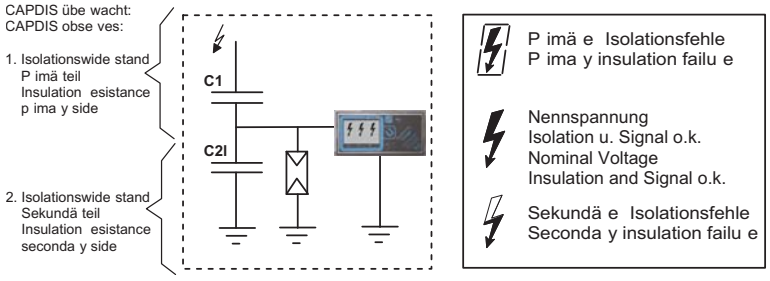
Applied standard: IEC 61243-5 (VDS)

Indication LC	Indication during normal operation with nominal voltage	Explanation	Indication during bringing into service with nominal voltage	Indication with pressed test button
⚡	**Overvoltage**	Isolation p oblem at p ima y pa t of divide o **U >> 1,2xUn**	**C2m < Min.**	**Capdis o.k.**
⚡	**Nominal voltage present**	**Signal ok Isolation ok U > 0,45xUn**	**C2m correct**	inte nal e o
⚡	**Voltage present**	Isolation p oblem at seconda y pa t of divide **0,1xUn < U < 0,45xUn**	**C2m > Max.**	inte nal e o
No indication	**No voltage**	Sho t-ci cuit at connecting leads **U < 0,1xUn**	**C2m >> Max.**	inte nal e o
ERROR		System e o	System e o	B oken lead (with optional b oken lead detection)

Housing:	front panel mount, h x w x d = 48 x 96 x 37 mm, for cut 45 x 92 mm
Operating temperature:	- 25°C to +55°C, storage temperature: - 30°C to +70°C, IP 54
Connectors for signal leads:	fast-on receptacles 4.8 x 0.8 mm
Required data for order:	rated voltage U_N, capacitance of coupling electrode C1
Part number:	2500421 CAPDIS-S1+/L_R4 with signal lead test
Universal C2m-Modules:	2501155 Low values (100, 470, 570, 1000, 3300, 4700pF)
	2501156 Medium values (330, 2200, 2530, 6800, 10000, 16800pF)
	2501157 High Values (330, 2200, 2530, 10000, 22000, 32000pF)



Isolation monitoring of capacitive divider with CAPDIS



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