

CAPDIS-S1+ (R4.5)

Capacitive Voltage Detecting Systems (VDIS)

The **CAPDIS-S1+ R4.5** is an integrated voltage testing system for checking for absence of voltage in medium-voltage switchgears in accordance with IEC 62271-213:2021 (or IEC 61243-5) with integrated three-phase continuous indication.



Properties

Voltage Detecting Systems VDIS for medium voltage (1..52 kV)

Testing for absence of voltage in medium voltage switchgears according to IEC 61243-5 or IEC 62271-213 with integrated three-phase continuous display.

Maintenance-free due to self-monitoring

No periodic retesting required according to IEC 62271-213 and BGV A3, as the device permanently monitors the response threshold and indicates it with a three-stage voltage level display (half, full and outlined lightning arrow).

Complete insulation monitoring of the capacitive divider

Complete primary-side and secondary-side monitoring and display of the insulation status of the capacitive voltage divider. Adjustment possibility for smart grid applications Adjustment possibility and monitoring of the capacitive divider for the standard-compliant response of the voltage test system and further processing of the voltage signals by smart grid systems (e.g. CAPDIS-M, IKI-23, IKI-50, IKI-55, ...). Adjustable 6-stage capacitor switching module allows adjustment of the voltage divider and shows the correct setting in the display.

Integrated self-test function

No external test device is required to test for voltage freedom. Integrated function test by means of test button according patent DE 103 04 396. Clear indication when primary voltage is present and not present. Optional conductor break detection and ground monitoring.

Integrated Y-interface

For further processing of the voltage signals via a smart grid system (e.g. IKI-50); connection via optional Y-cable.

Integrated three-phase measuring point

The device has a three-phase LRM measuring point. This serves as an interface for phase comparison and rotary field direction measurement (e.g. by means of universal tester type CAP-Phase).



Kries Energietechnik GmbH & Co. KG

Sandwiesenstr. 19 | D-71334 Waiblingen

kries.com | sales.kries@te.com | (+)49-7151-7074-860

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No battery required

Voltage test as well as self-test without battery or auxiliary voltage.

Technical Data

General data

Article number	2502145
Product designation	CAPDIS-S1+ R4.5, Capacitive Voltage Detecting Systems
Standard	IEC 61243-5, IEC 62271-213
Required data for order	Nominal voltage Un, size of coupling capacitor C1

Functions

Intrinsic safety	Device is intrinsically safe
Broken lead detection	Available

Display and HMI interfaces

Front display	LC-Display
Controls	Self-test button

Dimensions and type of installation

Case height x width x depth	48 x 96 x 37 mm
Cutout height x width	45 x 92 mm
Norm cutout dimensions	DIN IEC 61554:2002-08
Installation type	Panel mounting

Environmental conditions

Operating temperature	-25°C ... 55°C
Storage temperature	-30°C ... 75°C
Protection class	IP54
Voltage level	1..52 kV (Medium-voltage)
Rated frequency	50 Hz, 60 Hz
Type of interface	LRM
Lifetime	Minimum 31 years (MTBF)



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Voltage supply

Power supply	No auxiliary power supply needed
Battery	No battery required

Accessories

Article number	Product designation
C2m	C2m-Module for CAPDIS-Sx
2500828_S999	Cable set Custom-made for specific switchgear On request 0,5 - 40 m



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