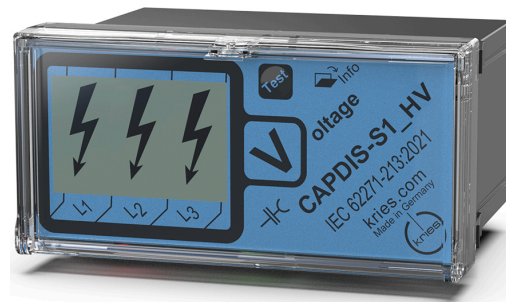


# CAPDIS-S1\_HV (R4.5)

## Capacitive Voltage Detecting Systems (VDIS)

The **CAPDIS-S1\_HV (R4.5)** is an integrated Voltage Detecting Systems for checking for absence of voltage in high-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 High Voltage Applications (53..480 kV)

Testing for absence of voltage in high voltage switchgear with integrated three-phase continuous indication according to IEC 61243-5 or IEC 62271-213.

#### Maintenance-free due to self-monitoring

No periodic retesting required according to IEC 62271-213 and BGV A3, as the device permanently monitors the threshold and displays it with a three-stage voltage level indicator (half, full and outlined 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 capability for smart grid applications

Adjustment capability and monitoring of the capacitive divider for the standard response of the Voltage Detecting Systems and further processing of the voltage signals by smart grid systems (e.g. CAPDIS-M, IKI-50, IKI-22...). Adjustable 6-stage capacitor module allows adjustment of the voltage divider and shows the correct setting on the display.

#### Integrated self-test function

No external test equipment is required to test for voltage freedom. Integrated function test by means of test button, according to patent DE 103 04 396. Clear display for primary voltage present and not present. Optional broken lead detection and ground monitoring.

#### Integrated Y-interface

For further processing of 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, see data sheet CAP-Phase).



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# CAPDIS-S1\_HV (R4.5)

## Capacitive Voltage Detecting Systems (VDIS)

### No battery required

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

## Technical Data

### General data

Article number	2502145_H001
Product designation	CAPDIS-S1_HV (R4.5) Capacitive Voltage Detecting Systems for High Voltage
Standard	IEC 61243-5, IEC 62271-213
Required data for order	Nominal voltage Un, coupling capacitance C1

### Functions

Intrinsic safety	Device is intrinsically safe
Broken lead detection	Can be activated/deactivated via DIP switch

### 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	53..480 kV (High-voltage)
Rated frequency	50 Hz, 60 Hz
Type of interface	LRM
Lifetime	Minimum 31 years (MTBF)



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# CAPDIS-S1\_HV (R4.5)

## Capacitive Voltage Detecting Systems (VDIS)

### 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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