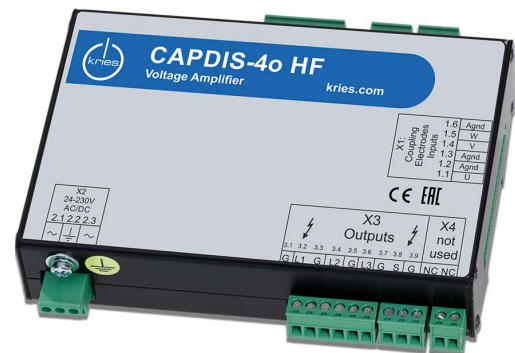


# CAPDIS-4o\_HF

## PT replacement for ohmic sensors

The CAPDIS-4o amplifier provides an output voltage of 3 x 100 VAC in conjunction with three resistive sensors and thus serves as a substitute for three inductive voltage transformers.



### Applications

- Connection of protective relays with conventional 100 VAC voltage measurement input
- Connection of universal measuring devices and network analyzers
- for critical safety applications (no ferroresonance)
- Retrofitting even in confined spaces

### Precise and economical

- Economical alternative to outgoing voltage transformers

### Safety and handling advantages

- minimal space requirement
- no additional measuring field
- no disassembly required for surge voltage tests
- no ferroresonance hazard

### Universal system components for all applications

- Ohmic divider type OKE for air-insulated switchgear series 12 kV, 24 kV or 36 kV
- Resistive divider type OAS for right-angle connectors in SF6 switchgear series 12 kV or 24 kV (36 kV on request)
- Voltage amplifier type CAPDIS-4o

### This variant

- Maximum accuracy deviation 0.5 %.
- Extended cut-off frequency  $f_g = 2$  kHz
- Divider adjustment by R2m module. The input load can be adjusted by plug-in impedance module. Thus, an adaptation to different operating voltages or sensors is possible.



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### Variants

| Item number       | Description  |
|-------------------|--|
| 2502073           | CAPDIS-4o Voltage transformer replacement for resistive sensors  |
| 2502073_H001      | CAPDIS-4o_HF Voltage transformer replacement for resistive sensors   fg = 2 kHz  |
| 2502073_H001_S003 | CAPDIS-4o_HF Voltage transformer replacement for resistive sensors   fg = 2 kHz   0.3 %  |
| 2502073_H002      | CAPDIS-4o_HF Voltage transformer replacement for resistive sensors   fg = 2 kHz   for Zelisko sensors   load 200 kOhm                                |
| 2502073_H002_S003 | CAPDIS-4o_HF Voltage transformer replacement for resistive sensors   fg = 2 kHz   for ABB (KEVA) and Zelisko sensors   input burden 200 kOhm   0.3 % |
| 2502073_H003_S003 | CAPDIS-4o_HF Voltage transformer replacement for resistive sensors   fg = 2 kHz   divider adjustment by exchangeable R2m module                      |

### Technical Data

#### Device data

|   |   |
|---|---|
| Article number                                | 2502073_H003_S003   |
| Product designation                           | CAPDIS-4o_HF Voltage transformer replacement for resistive sensors   fg = 2 kHz   divider adjustment by exchangeable R2m module   |
| Required data for order                       | Primary voltage ULL, secondary voltage ULL, manufacturer or type of ohmic divider alternatively value R1/R2 of divider, R2m module with intermediate plug or RJ45 socket? |
| Output power per channel                      | 0.50 VA   |
| Output voltage                                | 100 V   |
| Input impedance                               | 47 MOhm   |
| Summation voltage                             | ✓   |
| Cut-off frequency fg                          | 2000 Hz   |
| Input voltage                                 | 3.25 V  |
| Maximum phase shift I->O at nominal frequency | 0.67  |
| Tolerance/accuracy at nominal frequency       | 0.50 %  |
| 4..20 mA interface                            | -   |

### Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Case height x width x depth | 120 x 175 x 49 mm |
| Installation type           | C-Rail mounting   |

### Operating conditions

|                       |                |
|-----------------------|----------------|
| Operating temperature | -20°C ... 55°C |
| Storage temperature   | -25°C ... 70°C |
| Protection class      | IP40           |

### Voltage supply

|                        |                  |
|------------------------|------------------|
| Auxiliary power supply | 24 .. 230 VAC/DC |
| Power consumption      | 7,4 VA           |

## Accessories

| Article number | Product designation  |
|----------------|--|
| 2045201_H001   | OAS24 R2, 24 kV, 0.5 %, for Nexans 400TB, K400TB, KAA4, Suedkabel SEHDT 23, (symmetrical T-Connectors)   |
| 2045219_H001   | OAS12 R2, 12 kV, 0.5 %, for Nexans 400TB, K400TB, KAA4, Suedkabel SEHDT 23, (symmetrical T-Connectors)   |
| 2045237_H001   | OAS12 R2, 12 kV, 0.2 %, for Nexans 400TB, K400TB, KAA4, Suedkabel SEHDT 23, (symmetrical T-Connectors)   |
| 2045238_H001   | OAS24, 24 kV, 0.2 %, for Nexans 400TB, K400TB, KAA4, Suedkabel SEHDT 23, (symmetrical T-Connectors)  |
| 2045239_H001   | OAS12 R2, 12 kV, 0.2 %, for NKT CB 24-630 M12 up to 300 mm <sup>2</sup>  |
| 2045268_H001   | OAS24 R2, 24 kV, 0.5 %, for TE Connectivity: RSTI-58xx, RSTI-CC-58xx(coupling) RSTI-SA-58xx(Surge Arrestor) (asymmetrical)                         |
| 2045269_H001   | OAS24 R2, 24 kV, 0.2 %, for TE Connectivity: RSTI-58xx, RSTI-CC-58xx(coupling) RSTI-SA-58xx(Surge Arrestor) (asymmetrical)                         |
| 2045271_H001   | OAS24 R2, 24 kV, 0.5 %, Nexans 430TB   |
| 2045272_H001   | OAS24 R2, 24 kV, 0.2 %, Nexans 430TB   |
| 2045601_H001   | OAS24 R2, 24 kV, 0.5 %, for NKT CB 24-630 M12 up to 300 mm <sup>2</sup> / NKT CB 36-1250 M16 up to 630 mm <sup>2</sup> bei 24 kV, Suedkabel SET 24 |
| 2045602_H001   | OAS24 R2, 24 kV, 0.2 %, for NKT CB 24-630 M12 up to 300 mm <sup>2</sup> / NKT CB 36-1250 M16 up to 630 mm <sup>2</sup> bei 24 kV, Suedkabel SET 24 |
| 2045226        | OKE 12, 12 kV   0.5 %  |
| 2045227        | OKE 24, 24 kV   0.5 %  |
| 2045228        | OKE 36, 36 kV   0.5 %  |

| Article number | Product designation                      |
|----------------|--|
| 2045241        | OKE 12, 12 kV   0.2 %                    |
| 2045242        | OKE 24, 24 kV   0.2 %                    |
| 2045243        | OKE 36, 36 kV   0.2 %                    |
| 2045500        | OKE12 IEEE, 12 kV   0.5 %, IEEE version  |
| 2045501        | OKE 24 IEEE, 24 kV   0.5 %, IEEE version |
| 2045503        | OKE 36 IEEE, 36 kV   0.5 %, IEEE version |

