

# Insulation monitoring relay CM-IWN.1

For unearthed AC, DC and mixed AC/DC systems up to  $U_n = 400$  V AC and 600 V DC

The CM-IWN.1 serves to monitor insulation resistance in accordance with IEC 61557-8 in unearthed IT AC systems, IT AC systems with galvanically connected DC circuits, or unearthed IT DC systems with a voltage up to 400 V AC and 600 V DC. The measuring range can be extended up to 690 V AC and 1000 V DC by using the coupling unit CM-IVN. It can be configured to the requirements of the applications and therefore used multi-functional.

The CM-IWN.1 is available with two different terminal versions. You can choose between the proven screw connection technology (double-chamber cage connection terminals) and the completely tool-free Easy Connect Technology (push-in terminals).

## Characteristics

- For monitoring the insulation resistance of unearthed IT systems up to  $U_n = 400$  V AC and 600 V DC
- According to IEC/EN 61557-8 "Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems"
- Rated control supply voltage 24-240 V AC/DC
- Prognostic measuring principle with superimposed square wave signal
- Two measuring ranges 1-100 k $\Omega$  and 2-200 k $\Omega$
- One (1 x 2 c/o) or two (2 x 1 c/o) threshold values  $R_{w1}/R1^{(1)}$  (warning) and  $R_{w2}/R2^{(2)}$  (prewarning) configurable
- Precise adjustment of the threshold values in 1 k $\Omega$  steps (R1) and 2 k $\Omega$  steps (R2)
- Interrupted wire detection configurable
- Non-volatile fault storage configurable
- Open- or closed-circuit principle configurable
- Precise adjustment by front-face operating controls
- Screw connection technology or Easy Connect Technology available



- Housing material for highest fire protection classification UL 94 V-0
- Tool-free mounting on DIN rail as well as demounting
- 45 mm (1.77 in) width
- 3 LEDs for the indication of operational states

1 Term. acc. to IEC/EN 61557-8  
2 R2 only active with 2 x 1 c/o configuration

## Approvals / Marks



## Classifications:

EN 50155, IEC 60571, NF F 16-101/102, EN 45545-2

### EN 50155, IEC 60571

Temp. class	Voltage supply		Vibration and shock, acc to IEC/EN 61373	Coated pcb.
T3	S1	S2 / C1 / C2	Cat. 1, Class B	no

### NF F 16-101/102

Flammability index	Optical and toxicity of smoke index	Risk level achieved
T3	F2	143

### EN 45545-2

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# Abb Relay Testing Handbook Vboost

**M Woodhall**



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