

# RI-R44

## IT NETWORKS INSULATION CONTROL 440 VAC LCD DISPLAY, RS485



### General Characteristics



RI-R44-485

RI-R44-V-485

RI-R44 is a device that allows the insulation monitoring to earth of AC networks up to 440V isolated (IT systems). By applying a DC component measure signal between the insulated line and earth it's possible to control the insulation resistance by detecting the generated leakage current.

Thanks to the LCD display, the device allows the visualization of the instantaneous insulation value. Configurable automatic or manual resetting. It has a TRIP changeover contact configurable normally de-energised or energised.

The RI-R44 is also provided with a RS-485 interface with Modbus protocol to consent the integration in supervision systems..

### Features

INSULATION MONITORING OF IT SYSTEMS UP TP 440 VAC

LCD DISPLAY (Alarm or prealarm indicating events)

LOW INSULATION LED

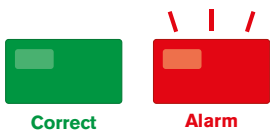
CONFIGURABLE AUTOMATIC OR MANUAL RESETTING

TEST PUSHBUTTON

TRIP THRESHOLD SETTING

TRIP OUTPUT RELAY

RS485 SERIAL INTERFACE (MODBUS RTU)



#### Instantaneous display

LCD display that enables quick alarm viewing of the insulation value. Incorporates illuminated status change for instantaneous detection of the status of the installation.

### Technical characteristics

<b>Controlled network voltage</b>	440 VAC
<b>Power consumption</b>	2 VA
<b>ALARM threshold setting</b>	-
<b>TRIP threshold setting</b>	1÷300 kΩ
<b>Tripping delay</b>	< 2.5 sec
<b>Max measuring current</b>	0.015 mA
<b>Max measuring voltage</b>	13 VDC
<b>Internal impedance</b>	1.5 MΩ for DC   1 MΩ for AC
<b>TRIP Relay number NO-C-NC</b>	1
<b>ALARM Relay number NO-C-NC</b>	-

<b>Max relay contact capacity</b>	250V - 5A
<b>Operating temperature</b>	-10 ÷ 60 °C
<b>Storage temperature</b>	-20 ÷ 80 °C
<b>Relative humidity</b>	≤ 95%
<b>Max terminal section</b>	2.5 mm <sup>2</sup>
<b>Protection degree</b>	IP40 front   IP20 housing
<b>Insulation test</b>	2.5 kV 60 sec   4 kV imp 1.2/50 μs
<b>Modules</b>	2
<b>Weight</b>	200 g
<b>Standards</b>	EN 61010-1, EN 61557-8, EN 61326-1

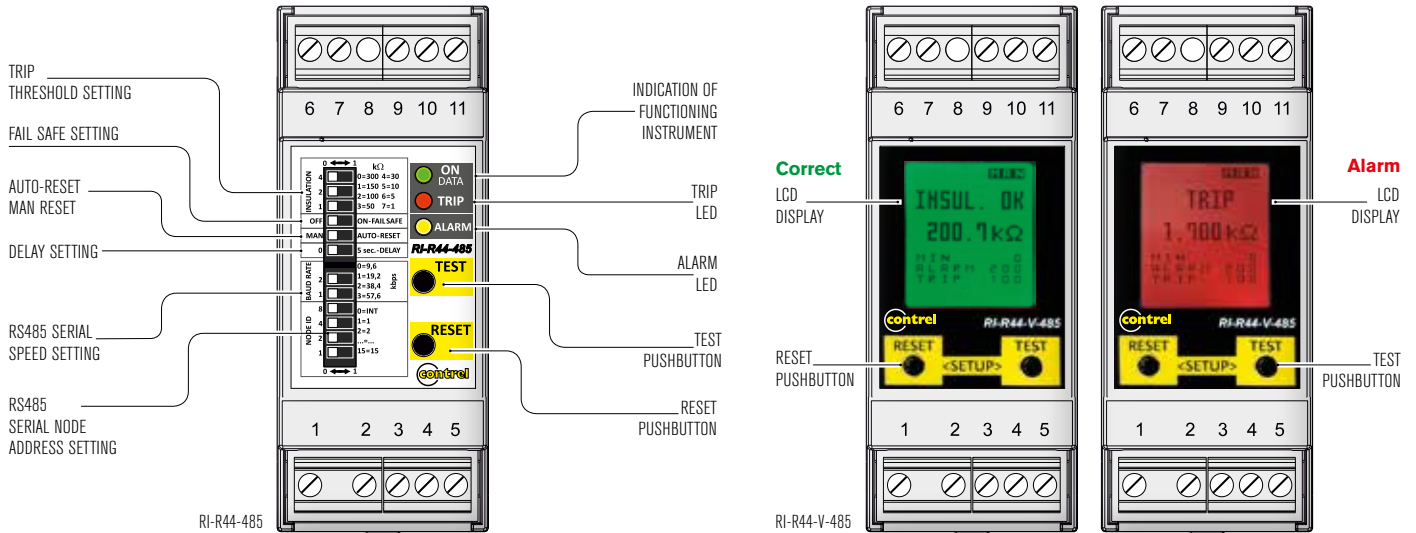
ORDER CODE	VERSION	Vaux	DESCRIPTION	CONTROLLED NETWORK VOLTAGE	MODULES
RI-R44	TRIP threshold adjustment	230 VAC	IT networks insulation control 440 VAC	440 VAC	2
RI-R44-485	TRIP threshold adjustment, RS485 serial interface	230 VAC	IT networks insulation control 440 VAC	440 VAC	2
RI-R44-V	TRIP threshold adjustment, LCD display	230 VAC	IT networks insulation control 440 VAC	440 VAC	2
RI-R44-V-485	TRIP threshold adjustment, LCD display, RS485 serial interface	230 VAC	IT networks insulation control 440 VAC	440 VAC	2

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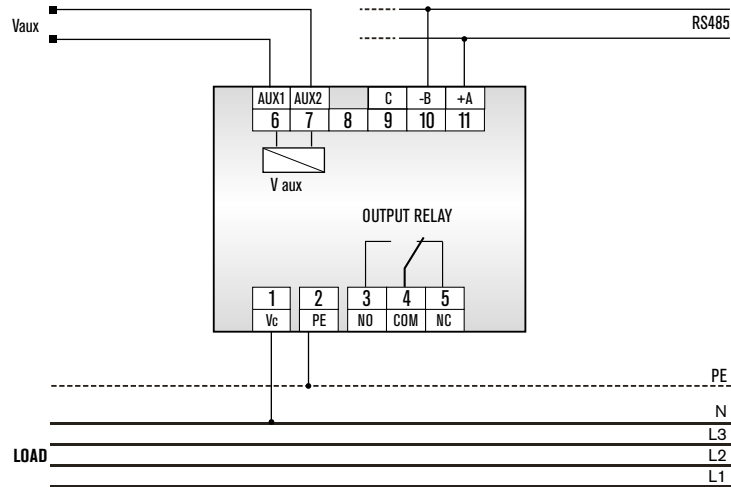
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### Operators



### Wiring diagrams



### Mechanical dimensions (mm)

