

• Direct connection up to 690V line voltage, up to 6,6kV with HV adapter for both single or three phase systems

KRM163E

- Monitoring during both live and standby conditions
- For use in industrial, marine, offshore installations
- "Easy view" status presentation
- Immune to earth capacitance and voltage surges
- Analogue output proportional to meter reading
- Adjustable alarm setpoint

Specifications

Aux. Supply:	100-120, 200-240, 380-415, or 440-460VAC, 40-70Hz (Fuse 0,5A)
Supply tolerance:	+/- 10%
Power consumption:	1.6VA
Contact rating:	AC: 100VA - 250V/2A max. DC: 50W - 100V/1A max.
Measurement category:	CAT III
Output:	0-1mA = 10Mohm-0ohm,
(Non-isolated, term. 13 have PE reference)	(max 500R)
Trip adjustment:	KRM163E: 0-10Mohm
Temperature:	-20 to +70°C
Humidity, relative:	0-80%
Operating altitude:	< 2000m above sea level
Location:	Indoor
Pollution degree:	3
Weight:	0.3kgs
Front protection:	IP20
Dimensions:	L: 70mm, H: 90mm, D: 58mm
Mounting:	35mm Rail Mount EN 60715
Safety:	EN 61010-1, EN 61010-2-030 CAT III
EMC:	EN 61000-6-2,
	EN61000-6-4 EN 61326-2-4
Terminal type:	Terminal Clamp and Screw
Wire max/min:	AWG14 - AWG24
Screw Torque:	0.5Nm/4.5 lb-inch

Description

The digitally controlled KRM163E uses the Megacon "IDV" insulation measuring principle and monitors insulation level between a non-grounded (IT) mains and its protective earth.

Unit is AC powered. Only **ONE** KRM163E can be connected to each IT-system. The status LED gives the clear safety message:

ALARM : • Red LED NORMAL : • Green LED

IDV MEASURING PRINCIPLE

Insulation is measured between the AC network and its protective earth. The unit injects a DC measuring signal into the monitored system. The signal flows to ground via the path of the insulation fault, the level of flow indicates the insulation resistance. The measuring accuracy is not influenced by any normal kind of load attached to the AC network.

OUTPUTS

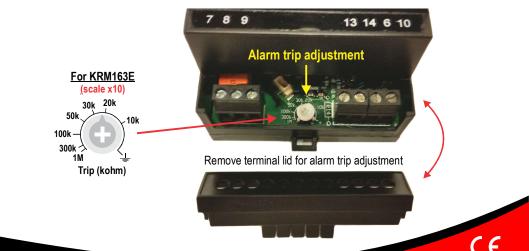
Unit is fitted with a **non-isolated** 0-1mA output for local/remote meter reading (optional slave instrument). Alarm relay is a potential free contact. Relay is fail-safe and change state when powered.

A status LED indicator on the KRM163E informs the service engineer whether or not the equipment is in an **Alarm** or **Normal** state at any time.

TRIPLEVEL

Trip level are settable under the terminal lid. When the adjustable trip setting is exceeded by the monitored line-earth resistance, the fail-safe relay changes state following a fixed 3 secs. delay period, indicating an alarm condition.

Start of monitoring function is delayed when auxiliary power is switched on (default 10 secs).



Output table (example for 0-1mA)

KRM163E	mA
Value (scale)	output
0kÙ	1mA
100kÙ	0.71mA
200kÙ	0.52mA
300kÙ	0.41mA
500kÙ	0.29mA
1MÙ	0.16mA
3MÙ	0.06mA
10MÙ	0.02mA
Open (60MÙ)	0mA

Norway Denmark <u>United King</u>dom



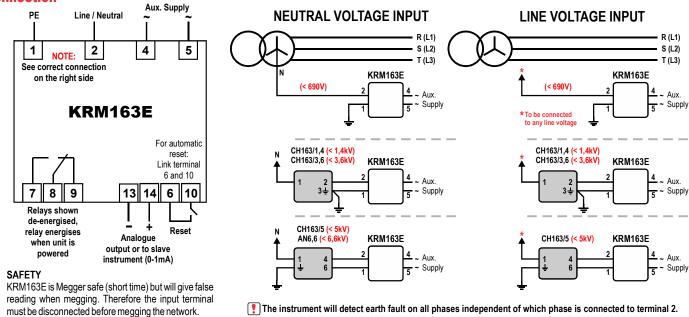
WWW.MEGACON.COM

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INSULATION RELAY FOR NON-GROUNDED AC SYSTEMS

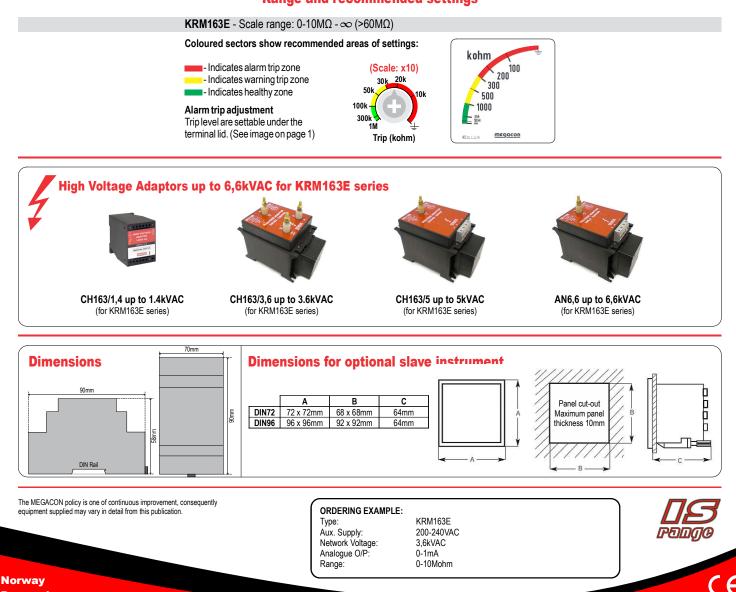
KRM163E

Connection



The instrument will detect earth fault on all phases independent of which phase is connected to terminal 2.

Range and recommended settings



Denmark United Kingdom

meggcon

www.megacon.com

ELECTRONIC CONTROL AND INSTRUMENTATION

Innovation Beyond Tradition guely MEGACON, simpler it can't be!

Page: 2 of 2