**RCM 202-AB**

2-channel residual current monitoring and analysis device with memory

for recording, evaluating and monitoring residual currents of types A, B and B+ according to IEC 62020 in TN and TT systems (earthed AC systems) by means of conventional implementable or convertible residual current transformers (type A, B, etc.) by means of a patented measuring method.

Possibility of optical or acoustic warning via external circuitry when the residual current limit values are reached and forwarding of the exceeding via the communication interface to e.g. a building management system for permanent residual current monitoring.

Current transformer connection monitoring (wire breakage or short-circuit monitoring per channel), detection of sinusoidal AC residual currents with frequencies up to 20 kHz (type B+), detection of pure DC currents, measured value and extreme value memory with time stamp, true RMS measurement.

The following analysis variables are output:

Individual limit values for type A, type B, type B+ freely parameterisable

Individual frequencies for 1-2000Hz

Spectrum display for 2-20kHz

Measured value display and operation by means of two-colour LED display (128 x 64 pixels), 3-button operation, self-test and test display, user guidance in German, English and Spanish freely selectable, integrated Modbus RTU termination (120 ohm) by means of switch, password-protected parameterisation, storage of 18,725 data records (ring memory) with date and time.

Unit dimensions (W x H x D): 71 x 90 x 73 (4 TE)

Net weight: 170 g,

Construction: Top-hat rail installation unit

Protection class according to EN 60529: IP20

Protection class: III (3)

Heat dissipation: max. 8 W

Temperature range in operation: -10° C - +55° C (K55)

Temperature range transport & storage: -25° C - +70° C

Operating altitude: 0 to 2000 m

Supply voltage: 85 to 305 V AC ( 50 / 60 Hz )

Rated current Ib: 4 kA

Rated surge voltage: 4 kV

Number of residual current monitoring channels: 2

Measuring range AC / DC: 10m A to 20 A

Response / reset delay: 10 ms to 10s

Number of digital outputs: 2

Switching voltage: max. DC 60 V, AC 30 V

Maximum current: 350 mA

Number of analogue outputs: 2

Type of analogue outputs: 4 to 20 mA

Supply voltage of the analogue outputs: DC 12 to 24 V (external)

Required decoupling: Galvanic, when using both outputs

Interface:

Type: RS485 interface

Protocol: Modbus RTU

Baud rate: 9.6 to 115.2 kbaud

Connection to higher-level systems (BMS) by means of all compatible Modbus gateway devices from the manufacturer.

Delivery includes:

Mounting accessories, documentation, matching of the design to the practical application as well as the measured variables incl. their recording intervals, compatible residual current transformers, configuration and parameterisation of the device, delivery, mounting as well as connection.

Manufacturer: Janitza electronics GmbH

Type: RCM 202-AB

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