**UMG 96-PA extension modules**

Function module RCM, temperature measurement, 4th current transformer, Ethernet

for extending the main unit of the series with the following main functions:

Two additional analogue inputs, e.g. for monitoring the residual current distribution from the total residual current between L1, L2, L3 and N and the residual current component in the supply line to the (central) earthing point.

Freely parameterisable absolute residual current limit values, relative residual current limit value with freely definable reference parameter (apparent power, active power, etc.) as well as permissible residual current depending on the power consumption or residual current limit values for different power ranges including respective prewarning values.

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

Fourth current transformer connection for checking the neutral conductor dimensioning in accordance with DIN VDE 0100-520 / IEC 364-5-5: 1993 of the resulting operating currents in the neutral conductor in the case of asymmetrical, inductive or capacitive loads.

Modbus RTU to Modbus TCP - gateway function for network connection to higher-level software systems of max. 31 top-hat rail or front panel devices, energy meters or data loggers of the manufacturer's current product series.

Alternative option for integrating Modbus RTU-certified third-party products after specific integration test via generic Modbus profiles.

Simultaneous supply of the communication interface as well as parallel operation of 4 Modbus TCP ports.

Differential current or analogue inputs:

Quantity: 2

Rated current: 30 mArms

Response current: 50 uA

Resolution: 1 uA

Temperature measurement inputs:

Quantity: 1

Approved sensors: PT100, PT1000, KTY83, KTY84

Current input I4:

Quantity: 1

Rated current: 1 / 5 A

Overvoltage category: 300V CAT II

Power consumption: approx. 0.2VA (Ri= 5mOhm)

Sampling frequency: 8.33 kHz

Approved and compatible for use with the main unit only.

Delivery includes:

Mounting accessories, documentation, parameterisation, & evaluation software in basic version, compatible residual current transformers, tuning of the design to the practical application as well as the measured variables incl. their recording intervals, configuration and parameterisation of the device (e.g. mains form, transformer ratios, addressing of the communication interfaces), delivery, mounting as well as connection.

Manufacturer: Janitza electronics GmbH

Type: Module 96-PA-RCM-EL

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