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algodue RPS51 Multiscale Integrator for Rogowski Coil with Output User Manual

Contents

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ELETTRONICA

**algodue RPS51 Multiscale Integrator for Rogowski Coil with Output**

INTRODUCTION

The manual is intended only for qualified, professional and skilled technicians, authorized to act in accordance with the safety standards provided for the electrical installations. This person must have appropriate training and wear suitable Personal Protective Equipment.

- **WARNING:** It is strictly forbidden for anyone who does not have the above-mentioned requires to install or use the product.
- **WARNING:** Instrument installation and connection must be carried out only by qualified professional staff. Switch off the voltage before instrument installation.
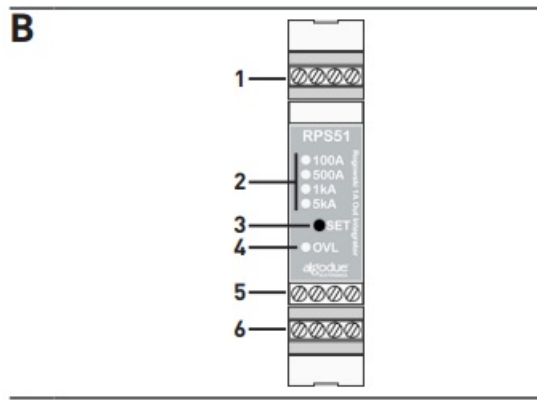
It is forbidden to use the product for purposes other than intended ones, specified in this manual.

DIMENSION
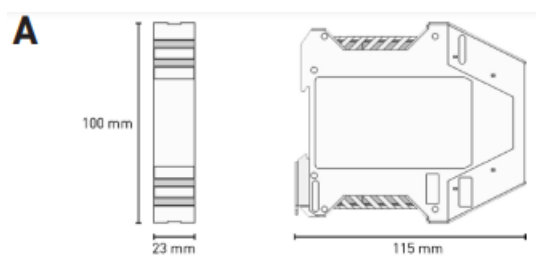
OVERVIEW

RPS51 can be combined with MFC140/MFC150 series Rogowski coils. It can be used with any type of energy meter, power analyser, etc. with 1 A CT input for current measurement. Refer to picture B:

1. AC output terminal
2. Full scale green LEDs. When ON, the relevant full scale is set
3. Full scale selection SET key
4. Output overload red LED (OVL LED)
5. Rogowski coil input terminal
6. Auxiliary power supply terminal

MEASUREMENT INPUTS & OUTPUTS

Refer to picture C.
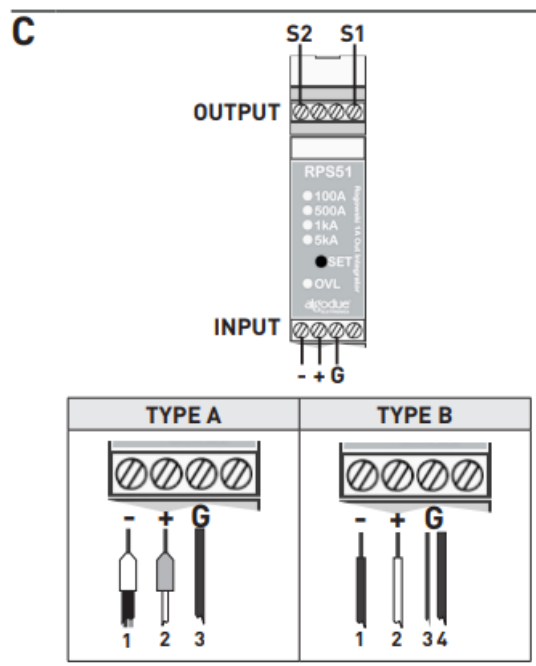
- **OUTPUT:** 1 A RMS AC output. Connect S1 and S2 terminals to the external device.
- **INPUT:** MFC140/MFC150 Rogowski coil input. Connections change according to the Rogowski coil output cable, refer to the following table:
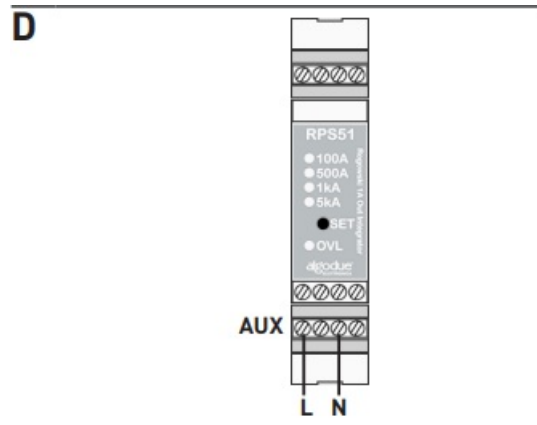
TYPE A with crimp pins

1. WHITE crimp pin (-)
2. YELLOW crimp pin (+)
3. Grounding (G)

TYPE B with flying tinned leads

1. BLUE/BLACK wire (-)
2. WHITE wire (+)
3. Shield (G)
4. Grounding (G)

POWER SUPPLY

WARNING: Install a circuit breaker or an over-current device (eg. 500 mA T type fuse) between the instrument power supply input and the electrical system.

- Before connecting the instrument to the network, check that the network voltage corresponds to the instrument power supply value (85…265 VAC). Make the connections as shown in picture D.
- At instrument switching on, the selected full scale LED and the OVL LED will be ON.
- After about 2 s, the OVL LED will be OFF and the instrument will be ready to use

FULL-SCALE SELECTION

- After instrument installation and first switching ON, select the full scale value by SET key, according to the used Rogowski coil.
- Press once to select the next full scale value.
- The selected full scale is saved, and at power OFF/ON cycle the previously selected full scale is recovered.

OUTPUT OVERLOAD STATUS

- **WARNING:** The instrument output may get overloaded. If this event occurs, it is suggested to select an higher full scale.
- **WARNING:** After 10 s from the overload occurs, the instrument output is automatically disabled for safety.

The instrument output is in overload status everytime the 1.6 A peak value is reached.
When this event occurs, the instrument reacts as follows:

1. The OVL LED starts to blink for 10 s about. During this period, the output accuracy is not guaranteed.
2. After that, if the overload continues, the OVL LED will be ON fixed and the output will be automatically disabled.

3. After 30 s, the instrument will check the overload status: if it continues, the output remains disabled and the OVL LED remains ON; if it ends, the output is automatically enabled and the OVL LED switches OFF.

MAINTENANCE

Refer to the following instructions carefully for the product maintenance.

- Keep the product clean and free of surface contamination.
- Clean the product with a soft cloth damp with a water and neutral soap. Avoid to use corrosive chemical products, solvents or aggressive detergents.
- Make sure the product is dry before further use.
- Do not use or leave the product in particularly dirty or dusty environments.

TECHNICAL FEATURES

NOTE: For any doubt on the installation procedure or on product application, please contact our technical services or our local distributor.

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Documents / Resources

	algodue RPS51 Multiscale Integrator for Rogowski Coil with Output [pdf] User Manual RPS51 Multiscale Integrator for Rogowski Coil with Output, RPS51, Multiscale Integrator for Rogowski Coil with Output, Multiscale Integrator, Integrator

References

- 🌐 **Algodue Elettronica: sistemi di monitoraggio energia**