

Level Control Relay

Digital without probes - Borehole



micro controle
automação electrónica, lda.

RND 102 ALM



Level control relay based on the intensity of the submersible pump's consumption, with self-calibration and operating hours counter for the electric pump.

No need for level probe installation.



Technical Specifications

INPUT RELAY

Power Supply: AC $\pm 10\%$ (230V, 400V) / 50 Hz

Power Consumption: 2 VA (aprox.)

OUTPUT RELAY

Dry Contact for Control: AC 6A – 250V

Dry Contact for Alarm: AC 6A – 250V

GENERAL

Ambient Temperature [-10°C, +55°C]

Protection Degree IP20

Pollution Degree 1

Modular Relay for DIN Rail mounting EN50 022

EU Directives – CE Marking: 2014/35/UE



Applications

Level control of the borehole, based on the current consumption of the pump motor, eliminating the need for level conductive probes.

Protection against:

- Water shortage (adjustable water delay time);
- Lack of air in the expansion vessel (protection against successive starts and stops);
- Electronic thermal trip control against overloads, phase loss, and motor connection failures.



Operation

After closing the contact pair (B3 – B4), the digital level relay (RND) turns on the pump. The RND will measure the current consumption, and if the value is above or below the nominal value, it will turn off the pump due to thermal trip or water shortage.

If the motor consumption of the pump remains within the nominal value, the pump will operate normally.

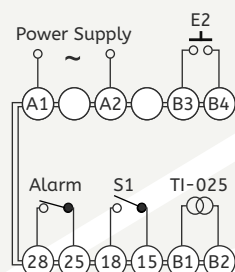
In case of thermal trip (overload) or water shortage, the pump will shut down, and the RND display will show the corresponding information for thermal trip or water shortage.

In case of an alarm, the respective contact will close.

Detailed programme settings are available upon request.



Connections



Order Codes

- ▶ RND 102 ALM 230V AC
- ▶ RND 102 ALM 400V AC



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