

## Electronic Thermo Regulator TR-2.1

### I. Application

The Electronic thermo regulator is designed to keep the temperature in the range between +20 °C and +60 °C in heating chambers, showcases, etc. The desired temperature level can be fixed by means of the knob on the front panel of the Regulator.

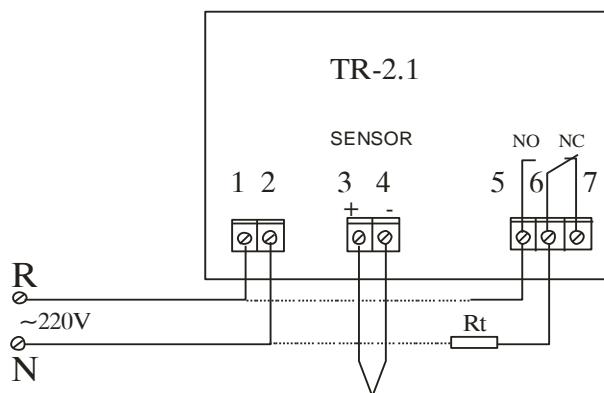
### II. Technical data

1. Power supply:	220V/AC
2. Nominal current through the contacts:	10A/AC
3. Number of contacts: one switching	one switching
4. Contacts wear resistance:	
- Electrical one:	$10^6$ commutation cycles
- Mechanical one:	$20 \times 10^6$ switching
5. Range of regulation:	( +20° C ) – ( +60° C )
6. Difference between the temperatures on switching on/off (hysteresis)	3° C

### III. Operation

The Electronic Thermo Regulator is encased in a plastic box, which connection to the circuit is to be done by its terminal board in accordance with the electrical scheme, indicated on the thermo regulator cover. The switching contact is connected to terminals 8, 9 and 10. The Electronic Regulator controls the temperature in the monitored chamber by a temperature sensor. The Regulator controls the temperature in relation to the difference between the assigned and the real levels. In case such a difference occurs, the Regulator outlet voltage will be changed. TR – 2.1 is a relay Regulator with one input (sensor LM 335) and one relay output. In this way the Electronic Temperature Regulator keeps the temperature in the chamber precisely. The Electronic Temperature regulator is to be connected to terminals 4 and 5, by connecting the black insulated cable to terminal 4 and the red one to terminal 5. The power supply of 220V/50Hz/AC is to be connected to terminals 1 and 2.

### IV. Wiring



## V. Warranty

The warranty period is 24 months following the purchase date of the unit or its installation by an authorized Engineering Company, but not exceeding 28 months after the production date. The warranty is extended to the malfunctions that occur during the warranty period and are result of the production reasons or defective used parts.

The warranty does not relate to malfunctions corresponding to not-qualified installation, activities directed to the product body interference, not regular storage or transport.

*The repairs during the warranty period can be done after correct filling of the manufacturer warranty card*

## Warranty Card

<b>Manufacturer: INTIEL</b>	
Product type:	<b>TR – 2.1</b>
Production date:	
Dealer confirmation:	
Purchase date:	