

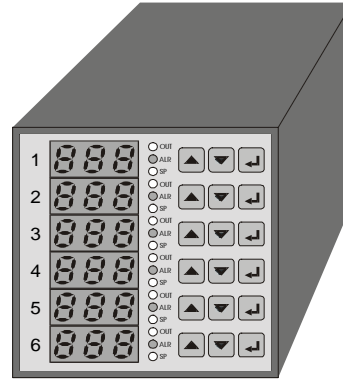
Six-channel digital controller TR604

“RING Engineering”

4000 Plovdiv, tel. (+359 32) 622146

e-mail: office@ring-bg.com

www.ring-bg.com



TR604 is a 6-channel microprocessor based controller dedicated to monitor and control temperatures, pressures or levels.

Main features

☞ 6 channels control

TR604 allow control of 6 fully independent channels.

☞ Separate display and push-buttons on each channel

This allows simultaneous monitoring of input value on all 6 channels of TR604.

☞ Easy to set-up and configure

The set-up of parameters is made by a hierarchical system of menus. All parameters are stored in non-volatile EEPROM memory.

☞ Universal power supply

The switch-mode power supply works over a wide range of input voltage and is protected from short-duration input peaks.

☞ Universal analog inputs

TR604 maintain 6 types of TC, one type of RTD and voltage input. The type of input is set from the front panel and may be different for each channel. Models with opto-isolated analog inputs are offered.

☞ PID or ON/OFF algorithm

Each channel on TR604 may work with PID or ON/OFF algorithm with separate configuration for setpoint, input type and alarms.

☞ Alarm output

The build-in alarm output (one for all channels) is turned on when an alarm situation occurs in some channel. This allows TR604 to work as part of sophisticated systems.

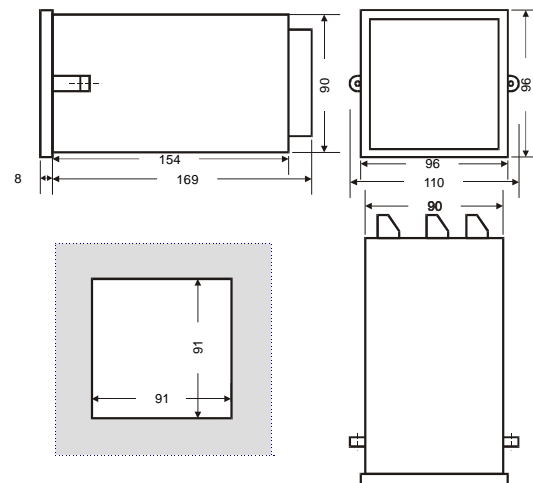
☞ Communication

An optional RS232 or RS485 communications interface with RI485 protocol is available. It provides a link between TR604 and PLCs or PC for monitoring or configurations.

These features made TR604 sum up six single-channel controllers in one enclosure, but in lower cost.

The TR604 is suitable for applications requiring control from 3 to 6 zones such as the plastics and food industries, furnaces and others.

Dimensions.



TECHNICAL SPECIFICATIONS

Main characteristics:

Power supply	100 – 250 VAC / 5 VA
Dimensions (ш, в, д)	96x96x177 мм
Mounting hole	91x91 мм ±1мм
Protections:	
- Front panel	IP54
- Other parts	IP40
Operating conditions	0 – 60 °C / 0 – 70 % RH no humidity
Storage conditions	-20 – 80 °C / 0 – 95 % RH

Inputs:

Thermocouple type “E”	0 – 800 °C
Thermocouple type “J”	0 – 1000 °C
Thermocouple type “K”	0 – 1000 °C
Thermocouple type “R”	0 – 1000 °C
Thermocouple type “S”	0 – 1000 °C
Thermocouple type “T”	0 – 400 °C
RTD Pt100	-100 – 650 °C
Linear voltage	-50 +50 mV
Linear voltage or current	0 +50 mV or 0 – 20 mA
Linear current (with external resistor 2,5 Ω)	0(4) – 20 mA

Outputs:

NPN open collector	40mA / 30VDC
Electromechanical relay NO	5A / 220VAC / 30VDC
Triac with zero-crossing	0,5A / 220VAC
Alarm output	Relay NO

Control:

Algorithm	PID or ON/OFF
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Communications:

Interface	RS232 or RS485
Protocol	RI485
Speed	9600 or 38400 B/s

Ordering info:

TR604-

1 2 3 4

1. Output .

- **D** – NPN ;
- **R** – relay ;
- **A** – triac.

2. Opto-isolation on analog inputs.

- **I** – yes;
- **N** – none.

3. Communication.

- **K** – RS232;
- **M** – RS485;
- **N** – none.

4. Controller type.

- **R** – ON/OFF;
- **P** - PID;
- **T** – ON/OFF + timer.