Features

- Digital thermostat with 6 functions and built-in time switch clock with day, week and year program. You can also limit temperature functions and courses this way in real time.
- Complex control of home and water heating, solar heating, etc.
- Two thermostats in one, two temperature inputs, two outputs with dry contact.
- Maximum universal and variable thermostat including all ordinary thermostat functions.

TER-9

0326820

RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Reed Relays

Product Description

- Digital thermostat with 6 functions and built-in time switch clock with day, week and year program. You can also limit temperature functions and courses this way in real time.
- Complex control of home and water heating, solar heating, etc.
- Two thermostats in one, two temperature inputs, two outputs with dry contact.
- Maximum universal and variable thermostat including all ordinary thermostat functions.
- Functions: two independent thermostats, dependent thermostat, differential thermostat, two level thermostat, zone-based thermostat, dead zone thermostat.
- Program setting of output functions, calibration of sensors according to reference temperature (off set).
- The thermostat is subject to the digital clock programs.
- Wide operating range of temperature settings, the possibility of measuring in °C and °F.
- Clear display of set and measured data on a backlit LCD.
- Power supply: AC 230 V or 24 V AC/DC (based on type of device).
- The time switch clock has a battery backup, which retains data in case of a power outage (backup time is up to 3 years).
- Easy replacement of the backup battery through the plug-in module, no disassembling is required.
- Output contact 1x changeover/SPDT 8 A/250 V AC1 for each output.
- 2-MODULE, DIN rail mounting.

Supply Specifications

Supply terminals:	A1-A2
Voltage range:	AC/DC 24 - 240 V (AC 50-60 Hz)
Burden:	max. 4 VA/0.5 W
Max. dissipated power (Un + terminals):	3 W
Supply voltage tolerance:	−15 %; + 10 %
Backup battery type:	CR 2023 (3V)

Output

Number of contacts:	1x switching for each output (AgNi)
Rated current:	8 A / AC1
Switching capacity:	2000 VA / AC1, 240 W / DC
Switching voltage:	250 V AC / 30 V DC
Output indication:	symbol ON/OFF
Mechanical life:	1×10^7
Electrical life (AC1):	1×10^5

Other information

Operating temperature:	-20 °C to 55 °C (-4 °F to 131 °F)
Storage temperature:	-30 °C to 70 °C (-22 °F to 158 °F)
Electrical strength:	4 kV (supply - output)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP 40 from front panel / IP 20 terminals
Overvoltage cathegory:	III.
Pollution degree:	2
Max. cable size (mm2):	solid wire max.1x 2.5 or 2x1.5 with sleeve max. 1x2.5 (AWG 12)
Dimensions:	90 x 17.6 x 64 mm (3.5˝ x 0.7˝ x 2.5˝)
Weight:	71 g (2.5 oz.)
Standards:	EN 60255-1, EN 60255-26, EN 60255-27, IEC 60730-2-9

Time circuit

Real time back-up:	up to 3 years
Accuracy:	max. ±1s/ day at 23°C
Minimum interval:	1 min.
Data stored for:	min. 10 years

Program circuit

Number of memory places:	100
Program:	daily , weakly, yearly
Data readout:	LCD display, with back light

Measuring circuit

Measuring terminals:	T1-T1 and T2-T2
Temperature range:	-40°C.. + 110°C
Hysteresis (sensitivity):	adjustable within range 0.5...5 °C
Diference:	adjustable 1 .. 50 °C
Sensor:	thermistor NTC 12 kΩ at 25 °C
Sensor failure indication:	Displayed on LCD

Accuracy

Measuring accuracy:	5 %
Repeat accuracy:	< 0.5 °C
Temperature dependance:	< 0.1 % / °C
Number of function:	6

## Connection and symbol
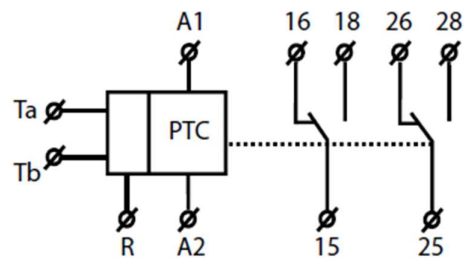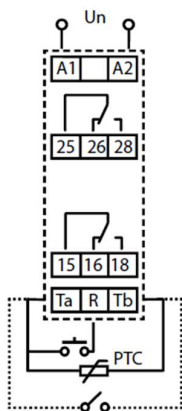
Description and function
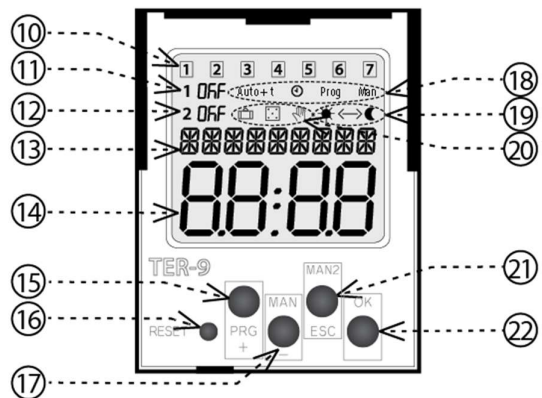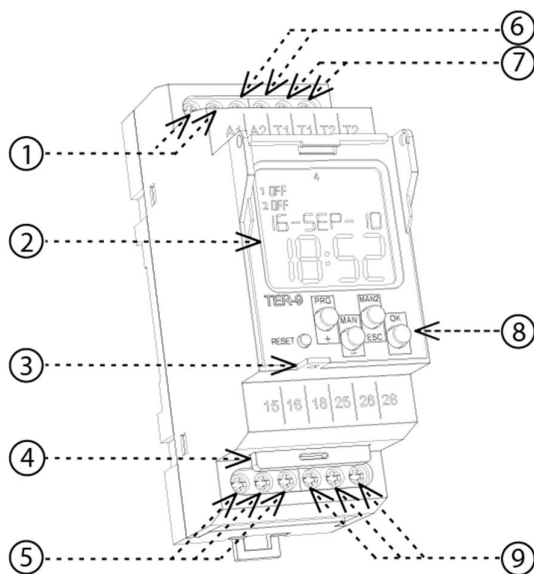
Supply voltage terminals

2. Display with back-light

3. Place for seal

4. Plug-in module for replacing backup battery

5. Output - channel 1 (15-16-18)

6. Terminals - sensor 1

7. Terminals - sensor 2

8. Control buttons

9. Output - channel 2 (25-26-28)

10. Indicates the day in the week

11. Indication (1st channel)

12. Indication (2nd channel)

13. Display of data / settings menu / or display of current measured temperature

14. Time display

15. Control button PRG / +

16. Reset

17. Control button MAN1 / -

18. Operating modes indication

19. 12/24 hours format / AM <– ; PM –>

20. Indication of the switch program

21. Control button MAN2 / ESC

22. Control button OK. Switches display date / measured temperature of channel 1, 2