

Features

- Single thermostat for temperature monitoring and regulation in range -30 °C to +70 °C (-22 °F to 158 °F) in six ranges.
- It can be used for monitoring temperature e.g. in switchboards, heating systems, cooling systems, liquids, radiators, motors, devices, open spaces, etc.
- Possibility to set function "heating"/"cooling".
- Adjustable hysteresis (sensitivity), switching by potentiometer in range 0.5 to 5 °C (0.9 to 9 °F).
- Choice of external temperature sensors with double insulation in standard lengths 3, 6 and 12 m (9.8/,19.7/ and 39.4/).
- It is possible to place sensor directly on terminal block - for temperature monitoring in a switchboard or in its surroundings.
Red LED indicates status of output, green LED indicates energization of the device.

TER-3A

0326819



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.

Product Description

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General Specifications

Function:	single level
Supply terminals:	A1-A2
Voltage range:	AC/DC 24 - 240 V (galvanically unseparated) (AC 50-60 Hz)
Burden:	max. 2 VA/1 W
Max. dissipated power (Un + terminals):	2.5 W
Supply voltage tolerance:	-15 %; + 10 %

Output

Number of contacts:	1x NO-SPST
Current rating:	16 A/AC1, 10 A/24 V DC
Breaking capacity:	4000 VA/AC1, 300 W/DC
Switching voltage:	250 V AC/24 V DC
Output indication:	red LED
Mechanical life:	10.000.000 ops.

Mechanical Specifications

Mounting:	DIN rail EN 60715
Dimension	90mm x 17.6mm x 64mm
Length	90mm
Height	17.6mm
Depth	64mm
Life	10.000.000 ops.

Operation Environment Specifications

Operating Temperature Range	-20°C to 55°C
Maximum Operating Temperature	55°C
Minimum Operating Temperature	-20°C
Storage Temperature	-30°C to 70°C

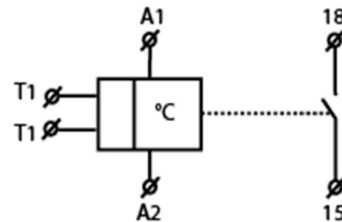
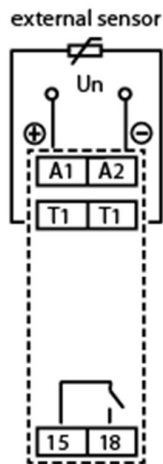
Measuring circuit

Measuring terminals:	T1 - T1
Temperature range (according to product type sensitivity):	30 .. 10 °C
Hysteresis:	adjustable in range 0.5 .. 5°C
Sensor:	external, thermistor NTC, except for TER-3G (Pt100)
Sensor fault indication (short circuit/disconnect):	flashing red LED

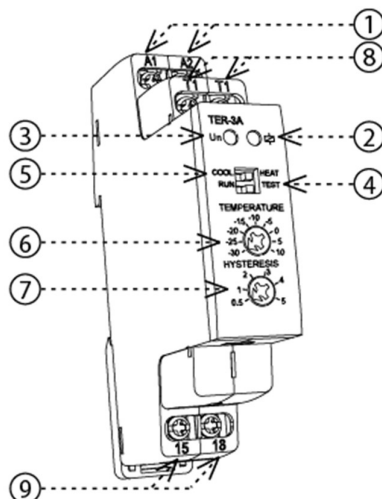
Accuracy

Setting accuracy (mech.):	5 %
Switching difference:	0.5 °C/0.9 °F
Temperature dependance:	< 0.1 %/°C (< 0.1 %/°F)

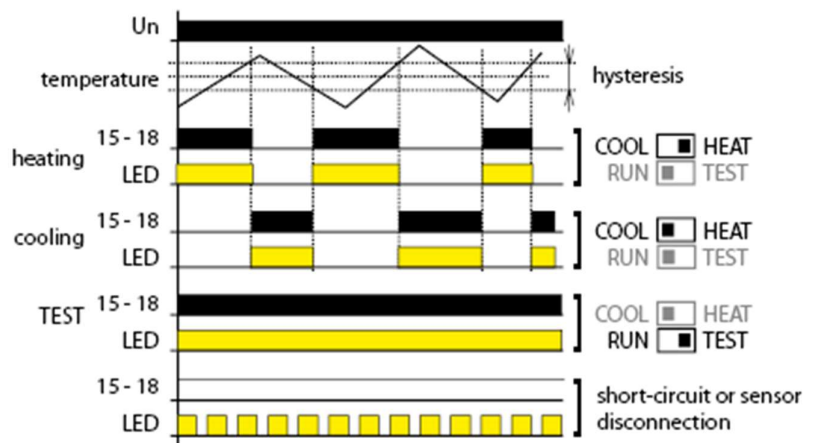
Connection and symbol



Description and function



1. Supply terminals
2. Output indication
3. Supply indication
4. Function TEST
5. Heating / cooling selection
6. Temperature adjusting
7. Hysteresis adjusting
8. Sensor terminals
9. Output contact



It is a single thermostat for temperature monitoring with separated sensor (except for TER-3F). Device is located in a switchboard and external sensor senses temperature of required space, object or liquid. Supply is not galvanically separated from sensor but sensor is double insulated. Maximal length of sensor cable is 12 m (39.4'). Temperature sensing is decreased by set hysteresis. When installing it is necessary to keep in mind that hysteresis is increased by temperature gradient between sensor's jacket and thermistor.