

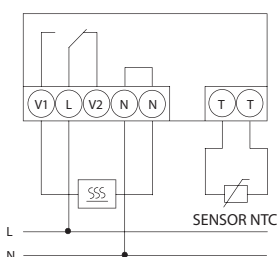


EAN code
TEV-1: 8595188129121

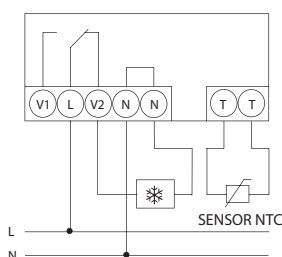
Technical parameters		TEV-1
Function:	two-level thermostat	
Supply terminals:	L - N	
Voltage range:	230 V AC / 50 - 60 Hz	
Input:	max. 2.5 VA	
Tolerance of voltage range:	±15 %	
Measuring circuit		
Measuring terminals:	T - T	
Temperature ranges		
thermostat 1:	-20 to 20 °C (-4 °F to 68 °F)	
thermostat 2:	-20 to 20 °C (-4 °F to 68 °F)	
Hysteresis (sensitivity):	3 °C (± 1.5 °C) / 37.4 °F (± 34.7 °F)	
Sensor:	thermistor NTC 12 kΩ / 25 °C (77 °F)	
Faulty sensor indication:	red LED flashing	
Accuracy		
Accuracy of settings (mech.):	5 %	
Dependence on temperature:	< 0.1 % / °C (°F)	
Output		
Number of contacts:	1x changeover / SPDT (AgNi / Silver Alloy)	
Current rating:	16 A / AC1	
Max. breaking capacity:	4000 VA / AC1, 384 W / DC	
Peak current:	30 A / < 3 s	
Switched voltage:	250 V AC1	
Output indication:	LED	
Mechanical life:	3x10 ⁷	
Electrical life:	0.7x10 ⁵	
Other information		
Operation temperature:	-30 °C to 50 °C (-22 °F to 140 °F)	
Operation position:	any	
Protection degree:	IP65	
Overvoltage category:	III.	
Pollution level:	2	
Max. cable size (mm ²):	solid wire 2.5 / with sleeve 1.5 (AWG 12)	
Dimensions:	110 x 135 x 66 mm (4.33 "x 5.3 "x 6.6 ")	
Weight:	270 g (9.5 oz.)	
Standards:	EN 60730-2-9, EN 61010-1	

Connection

Function heating

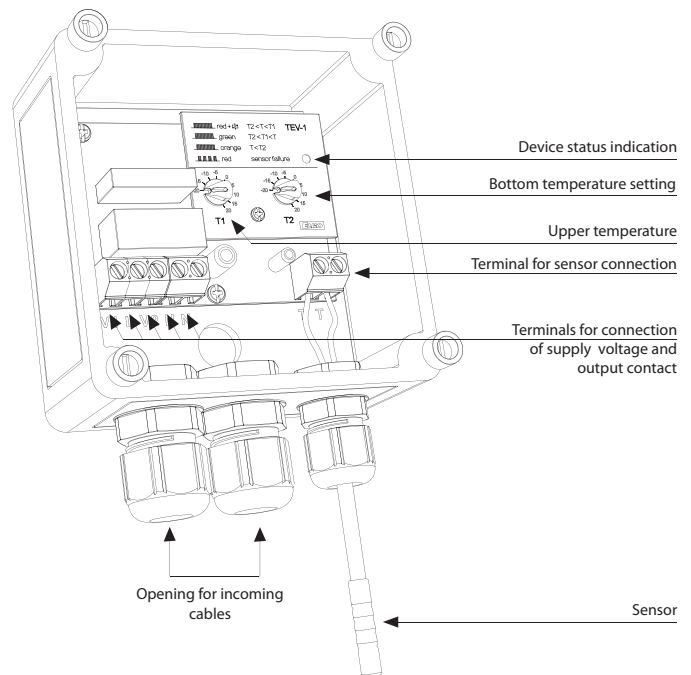


Function cooling

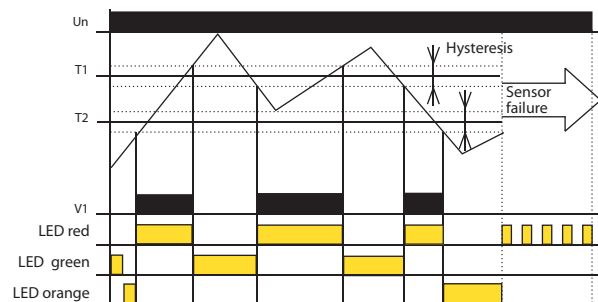


- Two-level thermostat with function "WINDOW" meaning that output is switched in case the measured temperature is within set range (adjustable in range -20.. +20 °C / -4 °F to +68 °F).
- Used as protection against freezing (water-shoots, pavements, drives, pipes, etc.) heating is on when temperature falls under set upper level (e.g. +5 °C / +41 °F) and off in case it falls under lower level (e.g. -10 °C / -50 °F, when heating is not able effectively operate).
- Thermostat is placed in water-proof box with IP65, which allows installation outside, with in-built sensor TZ-0.
- Thermostat status is indicated by LED (3 colors) under transparent cover.
- Function monitoring short-circuit and sensor disconnection (break).
- Output changeover contact 16 A / SPDT (AC-1).

Description



Function



TEV-1 is a double thermostat designated for system of protection of roof water-shoots against freezing. The device is placed in a waterproof box (IP65), sensor with double insulation, which is a part of the device, senses ambient temperature. The device operates as zonal thermostat with independent setting of upper and bottom operational temperature. In case the ambient temperature is higher than T1 (upper temperature), thermostat switches heating of watershoots off (icing melts down). In case the ambient temperature is lower than T2 (bottom temperature), thermostat also switches heating off (to big freezing-heating cannot manage to melt the ice).

Symbol

