

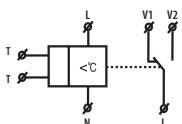

110x133
IP65


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

EAN code
TEV-1: 8595188129121

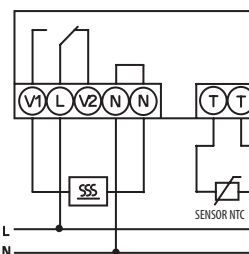
Technical parameters	TEV-1
Function:	two-level thermostat
Supply terminals:	L - N
Voltage range:	230V AC / 50 - 60 Hz
Input:	max. 2.5 VA
Tolerance of voltage range:	$\pm 15\%$
Measuring circuit	
Measuring terminals:	T - T
Temperature ranges	
thermostat 1:	$-20..+20\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$ to $+68\text{ }^{\circ}\text{F}$)
thermostat 2:	$-20..+20\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$ to $+68\text{ }^{\circ}\text{F}$)
Hysteresis (sensitivity):	3°C ($\pm 1.5\text{ }^{\circ}\text{C}$)
Sensor:	thermistor NTC 12 k Ω / 25 $^{\circ}\text{C}$ (77 $^{\circ}\text{F}$)
Faulty sensor indication:	red LED flashing
Accuracy	
Accuracy of settings (mechanical):	5 %
Dependence on temperature:	$< 0.1\%$ / $^{\circ}\text{C}$
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 / $< 3\text{ s}$
Switched voltage:	250 V AC1 / 24 V DC
Min.switching output DC:	500 mW
Output indication:	LED
Mechanical life:	3×10^7
Electrical life:	0.7×10^5
Other information	
Operation temperature:	$-30\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ ($-22\text{ }^{\circ}\text{F}$ to $140\text{ }^{\circ}\text{F}$)
Operation position:	any
Protection degree:	IP 65
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:	238 g (8.4 oz.)
Standards:	EN 60730-2-9, EN 61010-1

Symbol

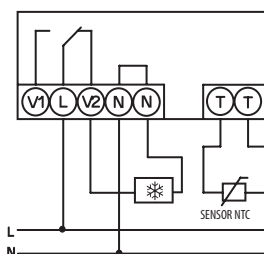


Connection

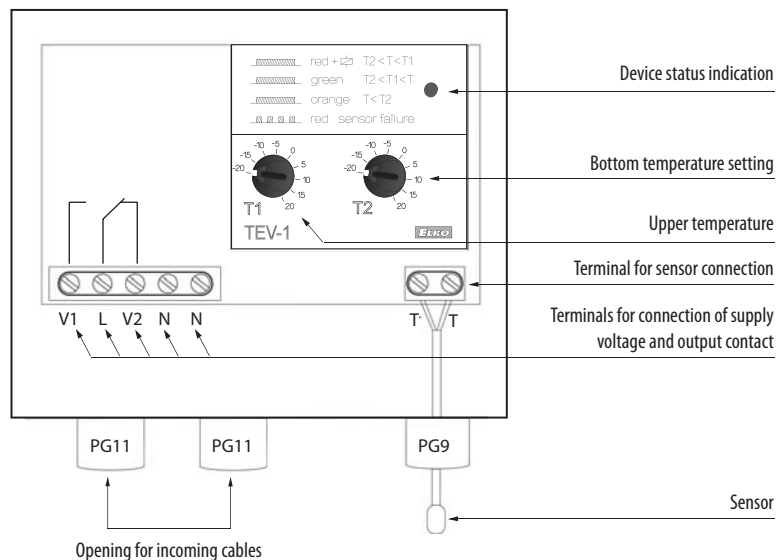
Function heating



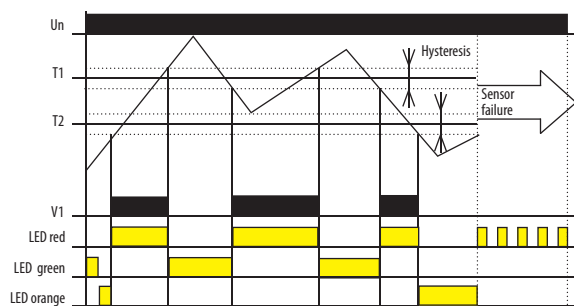
Function cooling



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).