Multifunction digital thermostat TER-9



TER-9

- digital thermostat with 6 functions and in-built time switch clock, with daily and weekly program (as SHT-1). Thermo
 functions can be managed also in real time
- complex control of heating and water heating in a house, solar heating....
- 2 thermostats in one, 2 temperature inputs, 2 outputs with potential free contact
- maximally universal and variable thermostat containing all common thermostatic functions
- functions: two independent thermostats, 1x dependent, differential thermostat, 2-stage thermostat, thermostat with dead zone, heating functions
- function of monitoring short-circuits or sensor disconnection
- program setting of output function, calibration of sensors according to reference temperature (offset)

Connection

- thermostat is inferior to a program of digital switch clock
- memory for the most often used temperatures
- zero error when value setting
- well-arranged display of set and measured data, illuminated LCD by backlight
- supply AC 230 V or AC/DC 24 V galvanically separated
- output contact 1x changeover 8 A / 250 V AC1 for each output
- 2-MODULE, DIN rail mounting

Symbol

Technical parameters:

Supply	
Number of function:	6
Supply terminals:	A1 - A2
Supply voltage:	AC 230 V or AC/DC 24 V, galvanically separated
Consumption:	max. 3.5 VA
Supply voltage tolerance:	-15 %; +10 %
Measuring circuit	
Measuring terminals:	T1-T1 and T2-T2
Temperature range:	-40 +110 °C
Hysteresis (sensitivity):	adjustable in range 0.5 5 K
Diference temperature:	adjustable 1 20 °C
Sensor:	termistor NTC 12 kΩ at 25 °C
Sensor failure indication:	sign "Err"
Accuracy	
Measuring accuracy:	5 %
Repeat accuracy:	< 0.5 °C
Temperature dependance:	< 0.1 % / °C
<u>Output</u>	
Number of contacts:	1x changeover for each input, (AgNi)
Rated current:	8 A / AC1
Breaking capacity:	2500 VA / AC1, 240 W / DC
Switching voltage:	250 V AC1 / 24 V DC
Min. breaking capacity DC:	500 mW
Output indication:	symbol ON/OFF
Mechanical life:	3x10 ⁷
Electrical life (AC1):	0.7x10⁵
Other information	
Operating temperature:	-20 +55 ⁰C
Storage temperature:	-30 +70 °C
Electrical strength:	4 kV (supply - contact)
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP 40 from front panel
Overvoltage cathegory:	III.
Pollution degree:	2
Max. cable size (mm ²):	solid wire max.1x 2.5 or 2x1.5/ with sleeve max. 1x2.5
Dimensions:	90 x 35.6 x 64 mm, see page 90-92
Weight:	140 g
Standards:	EN 61812-1, EN 61010-1, EN 60730-2-9





Note: The device is possible to operate with one sensor. In such case it is necessary to connect resistor $10k\Omega$. This resistor is a part of delivery.

Description

