

ROOM TEMPERATURE SENSOR TEHR KP 10-P

Remote control unit TEHR KP 10-P is made for detecting and controlling of the room temperature.

The sensor of the unit is connected to the sensor input of the controller and the set point is adjusted by the potentiometer for desired temperature.

The proper potentiometer (1 k Ω ...10 k Ω), resistors and possible accessories are to be specified on order.

Sensor voltages at different temperatures:

$^{\circ}\text{C}$	V	$^{\circ}\text{C}$	V
120	3.93	25	2.98
100	3.73	20	2.93
90	3.63	15	2.88
80	3.53	10	2.83
75	3.48	5	2.78
70	3.43	0	2.73
65	3.38	-5	2.68
60	3.33	-10	2.63
55	3.28	-15	2.58
50	3.23	-20	2.53
45	3.18	-25	2.48
40	3.13	-30	2.43
35	3.08	-40	2.33
30	3.03	-50	2.23



Technical data:

sensor	LM335Z, 2.73 V at 0 $^{\circ}\text{C}$ / 10 mV/K
range	0...50 $^{\circ}\text{C}$
accuracy	± 0.5 $^{\circ}\text{C}$ at 25 $^{\circ}\text{C}$
housing	ABS plastic, IP20
mounting	on the wall or on the standard flush mounting box (60 mm hole distance)
dimension (w x h x d)	86 x 85 x 30 mm

Connection:

1	sensor
2	sensor
3	not in use
4	potentiometer -
5	potentiometer (output)
6	potentiometer +

Ordering guide:

Model	Product number	Description
TEHR KP 10-P	117J230	room temperature sensor, KP element
Options:		
TEHR-S	1170080	push button (no/nc) 24 Vac/dc
TEHR-S5	1170090	5-position switch
TEHR-L	1170100	LED-lamp (24 V)
TEHR-N	1171140	display

Products fulfill the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).