Temperature controllers, one-step, with switching output



TR 040

TR 060

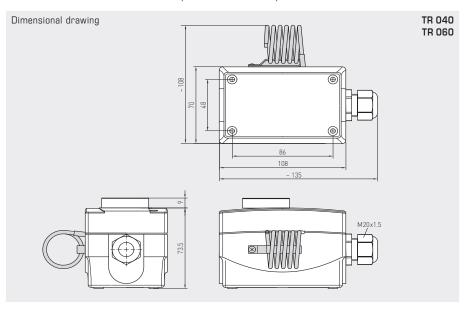
Mechanical temperature controllers/wet room temperature controllers THERMASREG® TR 040/ TR 060 with switching output (one-step) and stainless steel capillary (spiral coil sensor), working without external voltage. They are used for monitoring and controlling temperatures in heat generation plants, in heating, ventilation and air conditioning systems, for ventilation, cooling and climate control in halls, cold storage rooms, greenhouses, nurseries, stables, breeding rooms, as industrial room thermostat or surface-mounted thermostat in industrial applications as well as in wet room and outdoor areas.

TECHNICAL DATA	
Switching capacity: (Contact load)	24250 V AC $+10\%$, $16A$, $\cos\phi=1.0$ 24250 V AC $+10\%$, $1.5A$, $\cos\phi=0.6$ at 24 V AC min. $150mA$
Contact:	dust-proof switch block unit as potential-free, single-pole or two-pole changeover contact
Housing:	plastic, UV-resistant, material polyamide, 30 $\%$ glass-globe reinforced, colour traffic white (similar to RAL 9016)
Housing dimensions:	108 x 70 x 73.5 mm (Thor 2)
Cable gland:	M20x1.5; including strain relief
Housing temperature:	−35+65°C
Capillary:	stainless steel V2A (1.4303)
Tolerance:	$T_{min} \pm 3 K$; $T_{max} \pm 3 K$; at $+20 ^{\circ}C \pm 1 K$
Electrical connection:	0.14-2.5 mm ² via terminal screws
Routing:	admissible vibration load ≤ ½g
Protection class:	I (according to EN 60730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014/30/EU, low-voltage directive 2014/35/EU
FUNCTION	



Heating: The preset setpoint (scale value) is equivalent to the switch-off value of the heating. The switch-on value is lower by the amount of operating difference. Contact 2-3 breaks when temperature rises to the preset value.

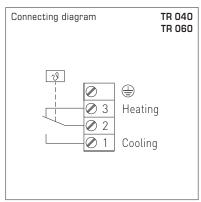
Cooling: The preset setpoint (scale value) is equivalent to the switch-on value of the cooling. The switch-off value is lower by the amount of operating difference. Contact 1-2 closes when temperature rises to the preset value.





TR 040U TR 060 U (one-step)





THERMASREG®					
Type/WG01	Temperature Range	Thermal Operating Difference (fixed) approx.	Max. Capillary Temperature	Item No.	Price
TR 040 / 060				TR (External setting)	
TR-040	0+40°C	2 K	+65 °C	1102-1050-1100-200	81,11 €
TR-060	0+60°C	2 K	+75 °C	1102-1050-1100-300	81,11 €
TR 040 U / 060 U				TW (Internal setting)	
TR-040 U	0+40°C	2 K	+65 °C	1102-1050-2100-200	79,80 €
TR-060 U	0+60°C	2 K	+75 °C	1102-1050-2100-300	79,80 €