Mechanical temperature controllers / contact thermostats **THERM**ASREG® **ALTR** with switching output (two-position controller) for monitoring, controlling and limitation of temperatures at pipes or vessels, e.g. in connection with hot-water or floor heating systems. The contact temperature controller ALTR is built as one-step device, as adjustable temperature controller **TR** (with external setting) or as adjustable temperature monitor **TW** (with internal setting).

ALTR 1 / 3 / 5 / 7



ALTR 1 / 3 / 5 / 7 U



TECHNICAL DATA

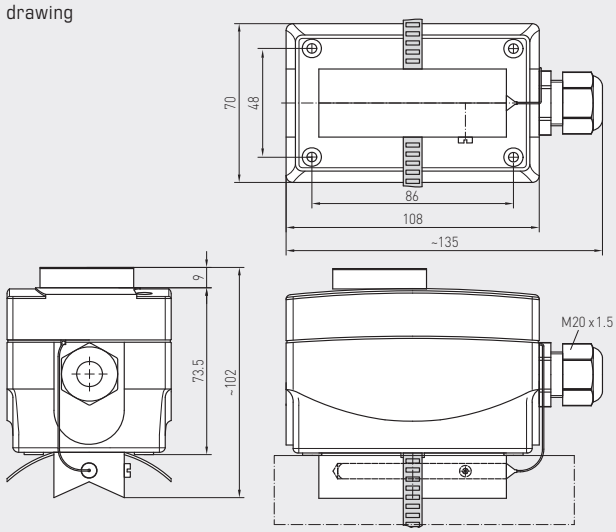
Switching capacity: (Contact load)	24 ... 250 V AC +10 %, 16 A, cos φ = 1.0 24 ... 250 V AC +10 %, 1.5 A, cos φ = 0.6 at 24 V AC min. 150 mA
Contact:	dust-proof switch block unit as potential-free single-pole changeover contact
Housing:	plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, colour traffic white (similar to RAL 9016)
Housing dimensions:	108 x 70 x 73.5 mm (Thor 2)
Cable gland:	M 20 x 1.5; including strain relief
Housing temperature:	–35...+65 °C
Tolerance:	T_{min} ± 5 K; T_{max} ± 5 K
Design principle:	torsion meter with liquid filling
Process connection:	endless strap with metal tightener (included in the scope of delivery), Ø = 13 - 92 mm (¼ - 3"), L = 300 mm
Electrical connection:	0.14 - 2.5 mm² via terminal screws
Protection class:	I (according to EN 60 730)
Protection type:	**IP 65** (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014 / 30 / EU, low-voltage directive 2014 / 35 / EU

FUNCTION

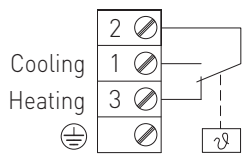
Heating: The preset setpoint (scale value) is equivalent to the switch-off value of the heating. The switch-on value is lower by the amount of operating difference. Contact 2 - 3 breaks when temperature rises to the preset value.

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.

Dimensional drawing **ALTR 1 / 3 / 5 / 7**



Connecting diagram **ALTR 1 / 3 / 5 / 7**



THERMASREG® ALTR 1 / 3 / 5 / 7 Surface contact temperature controllers

Type / WG01	Temperature Range	Thermal Operating Difference (fixed) approx.	Max. Capillary Temperature	Item No.	Price
ALTR 1 / 3 / 5 / 7				**TR** (External setting)	
ALTR-1	–35... +35 °C	5 K (± 1 K)	+60 °C	1102-1030-1100-100	**103,70 €**
ALTR-3	0... +60 °C	5 K (± 1 K)	+75 °C	1102-1030-1100-300	**103,70 €**
ALTR-5	0... +90 °C	5 K (± 1 K)	+120 °C	1102-1030-1100-400	**103,70 €**
ALTR-7	0...+120 °C	5 K (± 1 K)	+130 °C	1102-1030-1100-500	**103,70 €**
Extra charge:	**U** = Internal setting (**TW**), e. g. ALTR - 1 U				**10,25 €**