

# COMBINED TEMPERATURE CONTROLLER AND LIMITER WITH POSITIVE SAFETY 2+2 POLES



These safety devices automatically switch off the current in the controlled circuit as the temperature is reached, and switch it on again as the temperature falls below the set threshold value. The temperature of the controlled medium is thus maintained within a narrow zone. At the control failure, these devices automatically switch off the current in the controlled circuit as the pre-set temperature limit is reached, thus preventing overheating. Once the defection of the temperature regulation was repaired, in voltage-free state, the limiter/protective guard can be re-started manually.

Working temperature range: 0 – 150 °C

Areas of application:

- household heating boilers
- hot-water boilers and hot-water storage tanks

Trouble-free operation is conditioned by proper heat transfer between the controlled medium and the controller's and limiter's sensors.

## TECHNICAL DATA

Lifetime:	R, W: 50.000 cycles B, SB 1000 cycles	Way of operation:	R, W: 2C; B SB: 2BG/2AG/2AGM
Switching power:	30(4)A-4(1)A/250 V~; 20(4)A-4(1)A/250 V~; 16(4)A-4(1)A/400 V~;	Sensor:	Coiled: Cu: Ø5; Ø6; Ø8 INOX: Ø3; Ø4; Ø6
Max. temp. for the main unit:	85 °C / 150 °C	Protection class:	Class I. / IP 00
Work environment:	Normal	Heat and fire resistance:	D
Leakage current resistance:	≥ 175	Working range:	0-150°C
Max. sensor temperature:	Upper switching value +15%	Surface protection:	Galvanized
Length of the shaft:	14-50mm	Electrical connections:	A 6,3x0,8 tab contact M3 screw

## TYPE-EXAMPLES

Type Code	Type mark	Switch -off temp. °C	$\Delta T$	Sensor ØDxL1/mm/;	Capillary Ød x L2 /mm/	Protection tube L3 /mm/	Length of the shaft Lt /mm/
5272-0-302-0	RTB-0-K-M-0	10-85 100°C (0/-8)	4 ± 2	6,5 x 110 Cu	1,4 x 650	480	16
5272-0-302-1	RTB-0-K-M-0	7-77 95°C (±4)	4 ± 2	6,5 x 110 Cu	1,4 x 650	480	16
5272-0-302-2	RTB-0-K-M-1	10-85 100°C (0/-8)	4 ± 2	6,5 x 110 Cu	1,4 x 650	480	16