

# KR 80/LR 80, Controller for Boilers/Ventilation Controller Capillary System – TÜV-compliant (TÜV = German Technical Inspection)

Product Class B



KR



LR

## Technical Data

**Switching Capacity:** 15 (8) A, 24–250 V~, at 24 V~ min. 150 mA  
**Contact:** 1 microswitch as potential-free changeover contact (changeover switch)  
**Ambient Temperature:** –20...+55°C  
**Degree of protection:** standard IP 43 (optional: IP 54)  
**Protection Class:** I  
**Sensor:** liquid-type sensor made of CU brass, nickel-plated or V4 A (1.4571)  
**Immersion Sleeve:**  
**Max. Sensor Temperature:** end-of-scale value + 15 %  
**Colour:** grey (bottom part RAL 7016, upper part RAL 7035)

**Type tested by TÜV i.a.w. DIN 3440 to 95°C.**  
 Reg. No. TR/TW 107601

## Application

In heating technology this unit is used in boiler systems or in thermal accumulators, heating transfer stations and heating transfer systems. Used in ventilation technology as for monitoring supply air or as a limiter in electrical heating registers.

Type	Part No.	Control Range	Switching Diff. (approx.)	Length, Imm. Sleeve/ Protective Coil	Equipment*	€
KR 80.003-1 LR 80.003-1	C 1801726 C 1801800	0...35°C	1 K	120 mm	External adjustment/TR	55.80
KR 80.108-1 LR 80.108-1	C 1801707 C 1801801	0...35°C	1 K	120 mm	Internal setting/TW	55.80
KR 80.109-1 LR 80.109-1	C 1801744 C 1801810	0...35°C	1 K	200 mm	Internal setting/TW	57.70
KR 80.027-5 LR 80.027-5	C 1801731 C 1801806	0...70°C	5 K	100 mm	External adjustment/TR	57.70
KR 80.035-2 LR 80.035-2	C 1801705 C 1801824	0...70°C	2 K	100 mm	External adjustment/TR	55.80
KR 80.028-2 LR 80.028-2	C 1801732 C 1801807	0...70°C	2 K	200 mm	External adjustment/TR	57.70
KR 80.116-2 LR 80.116-2	C 1801748 C 1801811	0...70°C	2 K	100 mm	Internal setting/TW	55.80
KR 80.029-2 LR 80.029-2	C 1801733 C 1801816	0...70°C	2 K	280 mm	External adjustment/TR	58.60
KR 80.111-3	C 1801708	0...80°C	3 K	100 mm	Internal setting/TW	55.80
KR 80.009-1	C 1801728	10...45°C	1 K	200 mm/V4A	External adjustment/TR	76.80
KR 80.011-1	C 1801730	10...45°C	1 K	120 mm/V4A	External adjustment/TR	75.60
KR 80.120-1 LR 80.120-1	C 1801749 C 1801812	10...45°C	1 K	200 mm	Internal setting/TW	57.70
KR 80.206	C 1801720	30...65°C		100 mm	Internal adj./external reset/TB	55.80
KR 80.000-5	C 1801700	35...95°C	5 K	100 mm	External adjustment/TR	55.80
KR 80.001-5	C 1801723	35...95°C	5 K	200 mm	External adjustment/TR	57.70
KR 80.100-5	C 1801711	35...95°C	5 K	100 mm	Internal setting/TW	55.80
KR 80.101-5	C 1801739	35...95°C	5 K	200 mm	Internal setting/TW	57.70
KR 80.124-5	C 1801750	35...95°C	5 K	280 mm	Internal setting/TW	58.60

Heating Boiler and Ventilation-Temperature Control Unit, 1-stage, without Auxiliary Power

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Type	Part No.	Control Range	Switching Diff. (approx.)	Length, Imm. Sleeve/ Protective Coil	Equipment*	€
KR 80.112-5	C1801747	35... 95°C	5 K	600 mm	Internal setting/TW	68.90
KR 80.102-8	C1801706	40... 110°C	8 K	100 mm	Internal setting/TW	55.80
KR 80.103-8	C1801742	40... 110°C	8 K	200 mm	Internal setting/TW	57.70
KR 80.008-8	C1801727	40... 110°C	8 K	100 mm	External adjustment/TR	55.80
KR 80.006-8	C1801704	50... 130°C	8 K	100 mm	External adjustment/TR	55.80
KR 80.106-8	C1801743	50... 130°C	8 K	100 mm	Internal setting/TW	55.80
KR 80.207 LR 80.207	C1801710 C1801805	60... 95°C		100 mm	Int. adjustment/ext. reset/TB	55.80
KR 80.208	C1801721	85... 120°C		100 mm	Int. adjustment/ext. reset/TB	55.80
KR 80.202	C1801709	95... 130°C		100 mm	Int. adjustment/ext. reset/TB	55.80
KR 80.203 LR 80.203	C1801719 C1801825	95... 130°C		200 mm	Int. adjustment/ext. reset/TB	57.70
<b>Option: IP 54</b>						5.70

\* TR = temperature control unit, TW = temperature monitoring unit, TB = temperature limiter (manual reset after cooling by at least 8 K)

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