

# Universal thermostat ETR 77

Electronic controller with remote sensor



## Technical data

**Operating voltage:** 250 V~, 50 / 60 Hz  
**Switching capacity:** 24 – 250 V~,  
 10 (3) A – heating contact,  
 5 (1) A – cooling contact  
**Contact:** changeover contact  
**Switching difference:** adjustable (see table)  
**Ambient temperature:** –20 ... +50°C  
**Indication:** red LED (heating)  
**Degree of protection:** IP 65 (internal setting)  
 IP 54 (External setting)  
**Protection class:** II  
**Mounting / installation:** wall mounting, independent of position  
**Colour:** grey (bottom part RAL 7016, upper part RAL 7035)

## Application

Due to different sensor designs universally applicable for different tasks in the heating-, ventilating-, air conditioning and refrigerating technology field. Also suited for applications in the machine and apparatus engineering sphere. A red LED indicates the heating condition.

**Sensors are not included in the scope of the delivery** (except ETR 77.804-5). (As for choice of sensors available, see as of page 99).

Application of sensor types according to sensor no. indicated (i.e. all no. 51 sensor types can be used, e.g. HF-51, RF-51 or GFL-51, etc.).

Avoid parallel laying of sensor line and mains supply cables or protect it by shielding.

Type	Item No.	Control range	Equipment	Switching difference	Sensor	PG
ETR 77.008-5	D 4770014	–50 ... +50°C	internal setting	0.5 ... 5 K	51 (PTC 1 K)	A
ETR 77.108-5	D 4770040	–50 ... +50°C	external setting	0.5 ... 5 K	51 (PTC 1 K)	A
ETR 77.009-5	D 4770026	0 ... 100°C	internal setting	0.5 ... 5 K	51 (PTC 1 K)	A
ETR 77.109-5	D 4770053	0 ... 100°C	external setting	0.5 ... 5 K	51 (PTC 1 K)	A
ETR 77.109-15	D 4770089	0 ... 100°C	external setting	5 ... 15 K	51 (PTC 1 K)	A
<b>For remote sensor triggered control of floor heating systems</b>						<b>PG</b>
ETR 77.804-5	D4770956	0 ... 60°C Heating: 16 (4) A Cooling: 8 (2) A	scale 0 ... 6, internal setting incl. sensor HF-8 / 4-K 2 (4 m), (NTC 2 K), also applicable for use with HTRRB-011.010, ITR 79.804, FETR and FDTR-U			A

