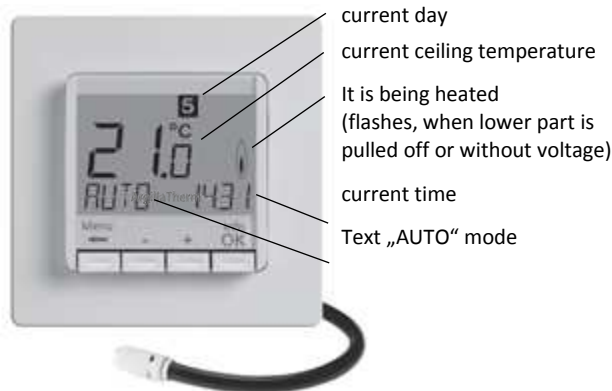


Thermostat AT-3R

According to DIN EN 60730, protection grade II

For finery or flush mounting for heating/cooling



Characteristics

The VDE-certified, programmable thermostat AT-3R by ArgillaTherm[®] is perfectly suited for the regulation of the low-temperature- ceiling/wall heating system RIVIERA. The indoor temperature only plays a minor role, since heat transfer takes place through an almost 100% proportion of thermal waves (radiation heat). The temperature is regulated depending on the ceiling temperature, measured by the remote sensor. Thus, possible external influences like draft cannot have a negative effect on the regulation behaviour. The regulator can be positioned all around the room or even outside of it.

- ✓ Single-lined text display for simplified usage
- ✓ Background lighting
- ✓ Real time clock (setting of year, month, day, time)
- ✓ Automatic summer/wintertime changeover
- ✓ Max. 9 switching times per day (various per day)
- ✓ Pre-set and adjustable time programmes
- ✓ Optimal-start (temperature is achieved at set time)
- ✓ Relay changeover (for use in combination with a distributor strip heating/cooling EV 230 H/K..)
- ✓ Programmable with removed control panel
- ✓ Vacation function with date (vacation from...to)
- ✓ Short term timer (party) for temporary change of temperature
- ✓ Antifreeze
- ✓ Adjustment range terminable
- ✓ Safeguard for unauthorized parties
- ✓ Operating language adjustable
- ✓ Control method PWM or 2-Point (on/off)
- ✓ Minimal on- or. Switch-off time and hysteresis of output adjustable, for on/off regulation
- ✓ Valve protection
- ✓ Adjustment to valve opened/closed currentless



Key figures (according to DIN required values in brackets)

Power supply	230 V AC 50 HZ (195...253V)
Selectable temperature range	5 °C to 40 °C; in 0,5 °C steps
Display temperature range	0,1 °C steps
Output	relay change-over, non-floating
Switching current	heating: 10 mA... 5(2) A; 230 V~ cooling: 10 mA... 1(1) A; 230 V~
Output signal	PWM or 2-point (on/off)
PWM-cycle period	adjustable
Hysteresis	adjustable (for 2-points)
Minimal switching times	10 minutes
Power consumption	~ 1,2 W
Rate precision	< 4 min / year
Power reserve	~ 10 years
Remote sensor	AT-F100-1, length 4 m, extendable to 50 m
Ambient temperature	operation 0 °C to 40 °C (without condensation)
Storage	-20 °C to 70 °C (without condensation)
Impulse voltage for calculation	4 kV
EMV-emission interference testing	230 V voltage, 0,1 A power
Protection type	IP 30
Protection grade	II
Software grade	A
Pollution grade	2
°C for ball pressure testing	75 ± 2 °C
Energy grade*	IV = 2%
Measurements	Control panel 50 x 50 mm Blind frame 80,5 x 80,5 mm Installation depth 42 mm Coating thickness 17,5 mm Remote sensor head 20 mm x Ø 8 mm

* nach EU 811/2013, 812/2013, 813/2013, 814/2013

Forms of delivery

Box / 1 piece	Content	Article number
11,5 x 10 x 6,5 cm Weight: 280g	1 piece thermostat 1 privacy shade 2 screws 15 x 2 mm 1 remote sensor, 4m long 1 instruction manual	ZAT3RR000

Assembly

The device should only be opened by an electrician and installed according to the circuit diagram or instruction manual in the case cover. Herefore all safety regulations must be complied by. To meet protection grade II requirements, according installation measures must be undertaken. Installation only to non-conductive (synthetic-) flush-mounted boxes!

For cooling demands use ArgillaTherm® terminal strip 230V .

For solid and flexible conductors, transverse section 1 to 2,5 mm².

For flush mounting; use Gira case GIR AP-case 1f.rws-g 006103.

Remote sensor

Remote sensor (caution voltage! Extendable with 2-wired conduction for 230 V to approx. 50 m) in a way that it can record the ceiling temperature correctly. Avoid close parallel guidance with mains lead, e.g. in the cable duct. Dismantling of wires max. 8 mm.

Placement for RIVIERA System: **Place white sensor head 2cm away from closest return pipe and not within close reach of flow!**

Resistance chart remote sensor

Temperature	Resistance
10°C	66,8 kΩ
20°C	41,3 kΩ
25°C	33,0 kΩ
30°C	26,3 kΩ
40°C	17,0 kΩ
50°C	11,3 kΩ

Working conditions for construction and application areas of our products are very various. In our technical data sheets, we can only provide basic processing guidelines. These comply with our current state of knowledge. Planners and processors are obligated to examine suitability and potential applications for the intended use. For application scenarios that are not expressly mentioned in our data sheets, planners and processors are obligated to refer to the ArgillaTherm® application technology. If the processor uses the product beyond the area of application in the instruction manual, without previous consultation of the ArgillaTherm® application technology, they are completely liable for the potential resulting damages. All herein contained descriptions, sketches, photographs, data, conditions, weights etc. can be changed without prior notice and do not represent contractual agreements of the of the products characteristics.

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