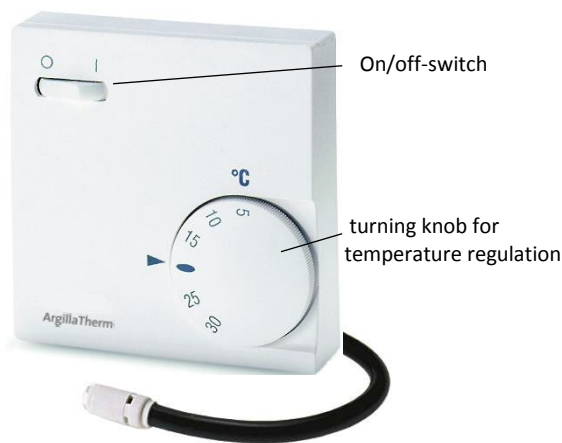


## Thermostat AT-R1W

According to DIN EN 60730, protection class II

For finery mounting for heating/cooling



### Properties

The analogue thermostat AT-R1W by ArgillaTherm<sup>®</sup> is perfectly suited for the regulation of the low temperature ceiling/wall heating system RIVIERA. As the heat is transferred almost completely by heat waves (radiant heat), room temperature is of minor importance. The temperature is regulated depending on the ceiling temperature, measured by a remote sensor. Therefore effects such as draft cannot have a negative influence on the regulation performance. The thermostat can be positioned anywhere indoor or even outside.

- ✓ Analogue temperature regulation by turning knob, range 5...40°C
- ✓ relay changer (for use in conjunction with manifold heating/ cooling EV 230 H/K)
- ✓ PWM mouth
- ✓ Heater switch (stand by, regulator stays on voltage, load is switched off)

### Characteristics (DIN required figures in brackets)

Voltage feed	230 V AC 50 HZ (195...253V)
selectable temperature range	5 °C bis 40 °C
mouth	relay changer, bound potential!!!
Switching current	heating: 10 mA... 5(2) A; 230 V~ cooling: 10 mA... 1(1) A; 230 V~ equal to heating 5(2) possible
Output signal	Proportional controller (PI) (continous-like by PWM)
Heating switch on/off	1-terminal
Input at	~ 0,5 W



Heating switch = off	
Remote sensor	AT-F100-1, length 4 m, capable of being extended up to 50 m
Ambient temperature	In operation 0 °C bis 40 °C (without dew)
storage	-20 °C bis 70 °C (without dew)
Impulse voltage for design	4 kV
EMV-conducted emission check	230 V voltage, 0,1 A current
IP code	IP 30
Appliance class	II (see assembly)
Software class	A
Rate of pollution	2
°C for ball indentation test	75 ± 2 °C
Energy class*	1 = 1 %
size	Thermostat: 75 x 75 x 25,5 mm Remote sensor: 20 mm x Ø 9 mm
weight	90g

\* acc. EU 811/2013, 812/2013, 813/2013, 814/2013

### Packages

box / 1 piece	content	Article no.
11,5 x 10 x 6,5 cm weight: 280g	1 off thermostat 2 off screw 15 x 2 mm 1 off remote sensor, 4m long 1 off manual	ZATR1W000

### Assembly

Electricians only are allowed to open the thermostat which must be installed in accordance with the circuit diagram shown in the housing cover and assembly instructions, respectively. Existing safety instructions are to be followed for that matter. For meeting the requirements of appliance class II the appropriate measures of installation are to be taken.

At cooling need use ArgillaTherm® manifold 230V.

For massive and flexible conducting mediums, cross section 1 to 2,5 mm<sup>2</sup>.

### Remote sensor

Install remote sensor (Attention: supply voltage!), capable of being extended up to about 50m with 2-core wire for 230 V, in such a way that it can measure the ceiling temperature in a correct manner. Avoid close parallel laying with power lines, e.g. in a cable channel. Skinning of wires max. 8 mm.

Positioning for system RIVIERA: **Place the white sensor head min. 2cm away from nearest return pipe and not close to the 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

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