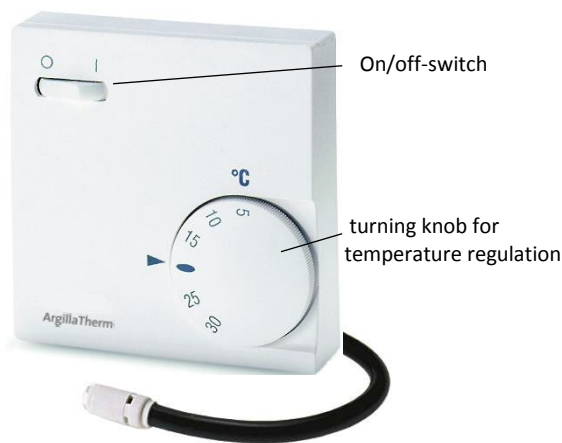


Thermostat AT-R1W

According to DIN EN 60730, protection class II

For finery mounting for heating/cooling



Properties

The analogue thermostat AT-R1W by ArgillaTherm[®] 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 mm².

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

. 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 products characteristics.

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