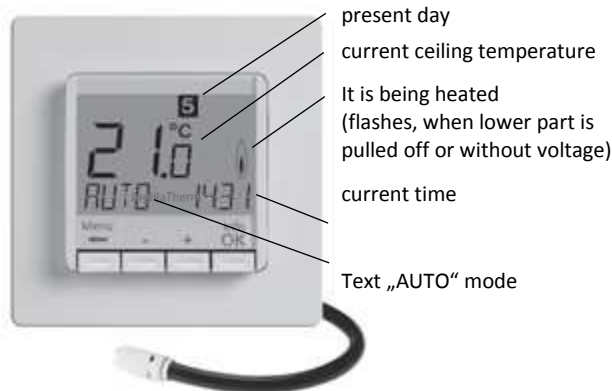


## Thermostat AT-3D

According to DIN EN 60730, protection grade II

For finery and flush mounting for heating/cooling



### Properties

The VDE-certified, programmable thermostat AT-3D by ArgillaTherm® is perfectly suited for the regulation of the low-temperature- ceiling/wall heating system TOSKANA and RIVIERA. Indoor temperature only plays a minor role, since heat transfer takes place through an almost 100% proportion of thermal waves (radiant 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)
- ✓ Switch-off function, press V button for 10 sec.
- ✓ Vacation function with date (vacation from...to)
- ✓ Short term timer (party) for temporary change of temperature
- ✓ Energy consumption display of the last 2 days, -week, -month, -year
- ✓ Energy costs adjustable per hour
- ✓ Antifreeze
- ✓ Temperature adjustment range terminable
- ✓ Safeguard for unauthorized parties
- ✓ Operating language adjustable
- ✓ Temperature readable as number
- ✓ Configurable heating break according to EN 50559 standard

**Key figures (according to DIN required values in brackets )**

Power supply	230 V AC 50 HZ (207...253 V)
Selectable temperature range	10 °C to 40 °C; in 0,5 °C steps
Display temperature range	0,1 °C steps
Output	relay change-over, non-floating
Switching current	10 mA... 16(4) 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

\* with electricity > 14 A, N-Do not drag power cable over the regulator, jam separately instead.

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

**Forms of delivery**

Package/ 1 piece	Content	Article number
11,5 x 10 x 6,5 cm weight: 280g	1 piece thermostat 1 piece privacy shade 2 piece screws 15 x 2 mm 1 piece remote sensor, 4m long 1 piece instruction manual	ZAT3DR000

### Assembly

The device is to be opened by an electrician only 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.

For use in the TOSKANA system: To avoid electric fields, the protective conductor of the electrical resistor cable must be grounded!

Installation only to non-conductive (synthetic-) flush-mounted boxes!

For solid and flexible conductors, cross section 1 to 2,5 mm<sup>2</sup>.

For surface installation; use Gira case GIR AP-case1f.rws-g 006103.

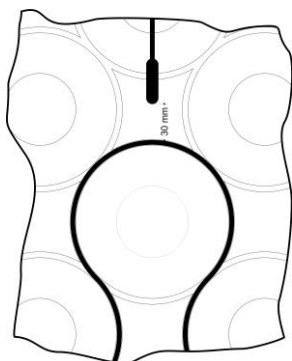
### Remote sensor

Install remote sensor (Caution voltage! Extendable with twin-core cable for 230 V to approx. 50 m) so that it touches on the ceiling temperature correctly. Avoid narrow parallel guidances with power cables, in the cable duct for instance. Dismantling of cables max. 8mm.

**Placement in the RIVIERA system:** White sensor head 2 cm apart from closest return pipe.

**Placement in the TOSKANA system:** White sensor head 3 cm apart from closest heating cable.

Example TOSKANA system



Resistance table 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