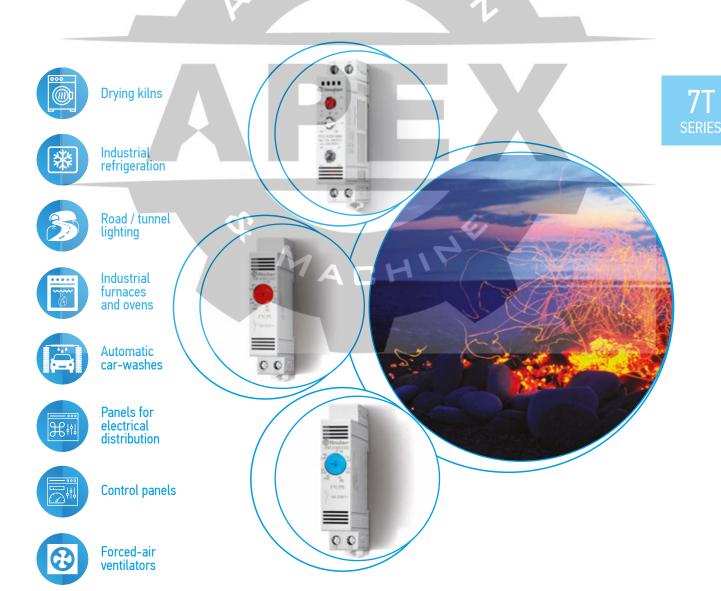
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Panel Thermo-Hygrostat and Thermostats





Panel Thermo-Hygrostat

- Small, compact size (17.5 mm wide)
- Electronic control
- 4 functions
- Nominal voltage 110...240 V AC/DC
- \bullet Temperature ranges from +10 $^{\circ}$ to +60 $^{\circ}\text{C}$
- Humidity range up to 90%
- LED status indication contact ON
- 35 mm rail (EN 60715) mount

Panel thermostat

- Small, compact size (17.5 mm wide)
- Snap action themostatic Bimetal sensor
- Wide temperature setting range
- Long electrical life
- 35 mm rail (EN 60715) mount





- Thermo-Hygrostatic control
- Nominal voltage 110...240 V AC/DC

7T.81.0.000.240x



• Heating control

7T.81.0.000.230x



Ventilation control

- * Measured with 0.3 K/min
- ** Measured with 0.5 %/min

For outline drawing see page 6

Contact specification	Con	tact s	pecifi	cation
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Contact specification				
Contact configuration		1 NO (SPST-NO)	1 NC (SPST-NC)	1 NO (SPST-NO)
Rated current/Maximum peak cur	rent A	10/20	10/20	10/20
Rated voltage/				
Maximum switching voltage	V AC	250/250	250/250	250/250
Rated load AC1	VA	2500	2500	2500
Rated load AC15 (230 V AC)	VA	250	250	250
Single phase motor rating AC3 (230	V AC) kW	1.1	1.1	1.1
Breaking capacity DC1: 30/110/22	0 V A	1/0.3/0.15	1/0.3/0.15	1/0.3/0.15
Minimum switching load	mW (V/mA)	500 (12/10)	500 (12/10)	500 (12/10)
Standard contact material		AgNi	AgNi	AgNi
Coil specifications				
Nominal Voltage	V AC/DC	110240	_	_
Rated Power	VA (50Hz)/W	1.8/0.44	_	_
Operating range	V AC/DC	88264	_	_
Temperature specifications *				
Setting range (ventilation)	°C	+10+60	-20+40 -20+60 0+60	-20+40 -20+60 0+60
Switch differential	K	4 ± 2	7 ± 4	7 ± 4
Setting accuracy full range	K	-1+3	_	_
Humidity specifications **				
Setting range (humidity)	%	5090	_	_
Hysteresis	%	4 ± 2	_	_
Setting accuracy	%	5	_	_
Technical data				
Electrical life at rated load AC1	cycles	100 · 10³	100 · 10³	100 · 10³
Ambient temperature range	°C	-25+60	-45+80	-45+80
Protection category		IP 20	IP 20	IP 20
Approvals (according to type)			CE FR EUC	₩°s c Fl ®us

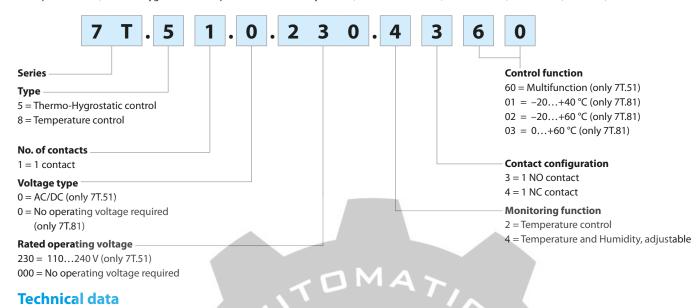


7T SERIES Panel Thermo-hygrostat and thermostats



Ordering information

Example: 7T Series, Thermo-Hygrostat for temperature and humidity control, 110...240 V AC/DC, Multifunction, 35 mm rail (EN 60715) mount.

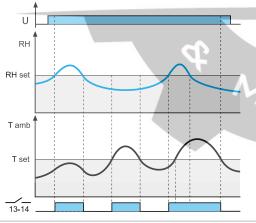


Technical data

000 = No operating voltage required

Insulation		7T.51	7T.81
Dielectric strength between open contacts	V AC	1000	500
Dielectric strength between supply and contact	V AC	2000	
Other data			
Screw torque	Nm	0.5	0.5
Max. wire size		solid cable	stranded cable
	mm²	1 x 2.5	1 x 1.5
	AWG	1 x 12	1 x 16

Functions 7T.51

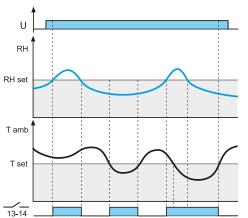


HT: RH > RHset OR Tamb > Tset

Power is permanentely applied to the thermo-hygrostat.

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) OR if the ambient temperature (Tamb) is > of set temperature

When contact is close, LED is ON

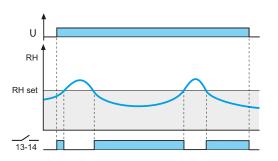


TH: RH > RHset OR Tamb < Tset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) OR if the ambient temperature (Tamb) is < of set temperature

When contact is close, LED is ON

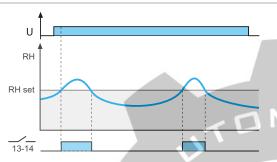
Functions 7T.51



HL: RH < RHset

The contact 13-14 closes if the ambient humidity (RH) is < of set humidity (RHset)

When contact is close, LED is ON

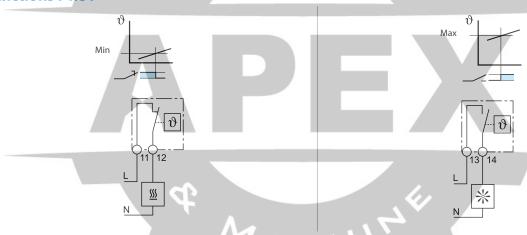


HM: RH > RHset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset)

When contact is close, LED is ON

Functions 7T.81



Heating control - Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat.

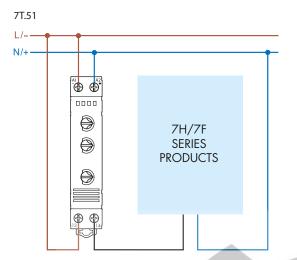
The contact will open when this set temperature is exceeded.

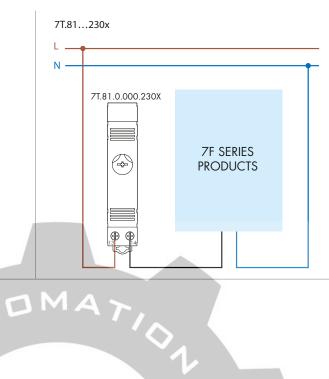
Ventilation control - Should the panel temperature exceed the (maximum) set temperature then the contact will close to call for cooling.

The contact will open when the temperature falls below this set temperature.

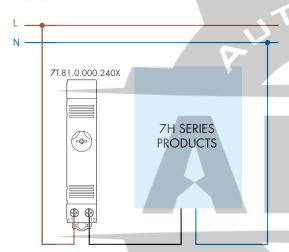


Wiring diagrams









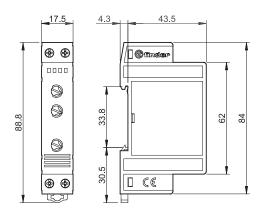
PEX

Outline drawings

Type 7T.51

Screw terminal





Type 7T.81

Screw terminal

