

# Thermal control solutions

The thermal control devices can regulate the temperature and humidity levels inside the cabinet to maintain optimal climatic conditions, with the possibility of electronic monitoring of thermal parameters by using the network infrastructure and Industrial Internet of Things (IIoT).

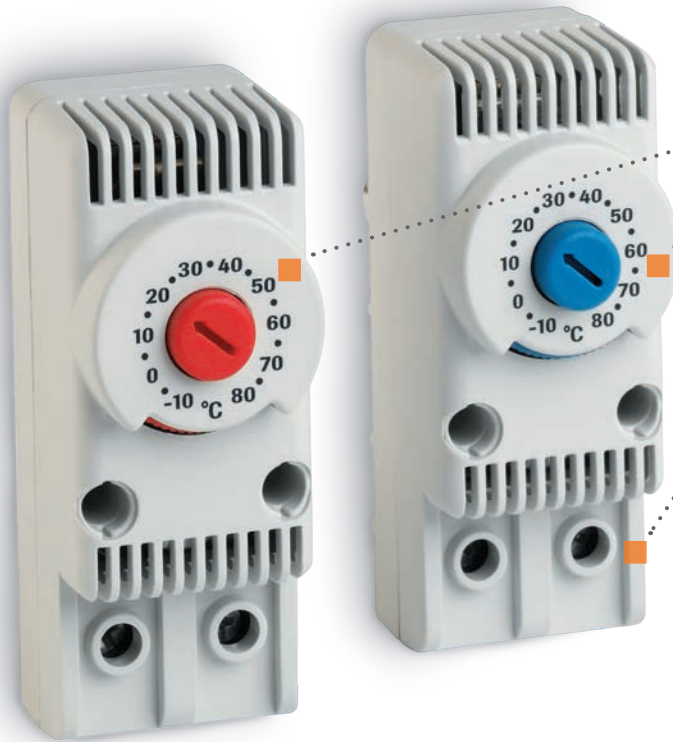
**orangis**  
ambient control

Most of our products are available  
in the industrial engineering software:



■ SINGLE THERMOSTATS

The single thermostats meet the requirements for temperature control in the electrical cabinet. By adjusting the activation threshold, the thermostat can operate cooling or heating units while keeping the temperature above the dew point. They are available with closing, opening or change-over contact.



■ VERSIONS

Available with normally closed, normally open and change-over contacts

SET POINT

Wide temperature setting range with Celsius or Fahrenheit scales

ELECTRICAL CONNECTION

Screw terminals

■ SIMPLE MOUNTING

Snap-on fastening system for DIN rails

■ APPLICATIONS

Switching contact for fan filters, heaters and cooling unit or signal devices

APPROVALS



Details that make the difference



°C and °F scales



Disk setting by hand or tool



Patented clip-on system

■ TWIN THERMOSTATS

Twin thermostats are used where multiple drives are required. The unit integrates two independently operable devices into one compact assembly for simultaneously controlling heating, cooling or signalling devices via two knobs.



**SET POINT**  
Wide temperature setting range with Celsius or Fahrenheit scales

**VERSIONS**  
Available with normally closed/normally open, normally closed/normally closed and normally open/normally open contacts

**SIMPLE MOUNTING**  
Snap-on fastening system for 35mm DIN rails

**DUAL SYSTEM**  
Separate adjustment and operation

**APPLICATIONS**  
Switching contact for fan filters, heaters and cooling unit or signal devices

**ELECTRICAL CONNECTION**  
Screw terminals



Model numbering system for SINGLE AND TWIN THERMOSTATS

description	TRT	10A	230V	-	NC	F	PA00	description
<b>FAMILY TRT</b> TRT = single thermostat TRT2 = twin thermostat								<b>CUSTOM SERIES</b> PA** = custom version
<b>RATED CURRENT</b>								<b>SCALE</b> ( ) = °C (Celsius) F = °F (Fahrenheit)
<b>RATED VOLTAGE</b>								
<b>VERSION</b> Single thermostat NC = Normally Closed NO = Normally Open	<b>Twin thermostat</b> NCNC = Normally Closed / Normally Closed NCNO = Normally Closed / Normally Open NONO = Normally Open / Normally Open							

■ HYGROSTATS

Hygrostats detect the level of humidity in the air inside the electrical cabinet and operate the cooling or heating units when a set relative humidity value is exceeded to avoid the formation of condensation on the electrical components.



**ELECTRICAL CONNECTION**

Screw terminals

**SIMPLE MOUNTING**

Snap-on fastening system for 35mm DIN rails

**APPLICATIONS**

Combined with heaters or fan filters for a precise control of humidity levels



Model numbering system for HYGROSTATS

<i>description</i>	IGR	35	F	-	PA00	<i>description</i>
<b>FAMILY IGR</b> IGR = Hygrostat						<b>CUSTOM SERIES</b> PA** = custom version
<b>SUPPORT</b> 35mm DIN rail						<b>VERSION</b> F = Fandis



### NO-NC Thermostats

- Versions available: NC (red disc) with normally closed contact to control heating systems and NO (blue disc) with normally open contact to control cooling systems
- Patented snap-on fastening system on DIN rails TS35/15/32
- Wide temperature setting range with Celsius (°C) or Fahrenheit (°F) scales
- Disc setting by hand or tool
- Standard colour RAL 7035



Model	Rated Voltage	Rated Current	Max Contact Current	Setting Range	Approvals
		A	A		
TRT-10A230V-NC	110-250 V a.c.; 60 V d.c.	10	15	-10÷80 °C	cURus
TRT-10A230V-NCF	110-250 V a.c.; 60 V d.c.	10	15	14÷176 °F	cURus
TRT-10A230V-NO	110-250 V a.c.; 60 V d.c.	10	15	-10÷80 °C	cURus
TRT-10A230V-NOF	110-250 V a.c.; 60 V d.c.	10	15	14÷176 °F	cURus



### Twin thermostats

- Available with Normally Closed/Normally Open (NC/NO), Normally Closed/Normally Closed (NC/NC) and Normally Open/Normally Open (NO/NO)
- Separate adjustment and operation of the devices
- Snap-on fastening system on DIN rail TS35
- Wide temperature range with Celsius (°C) or Fahrenheit (°F) scales
- Disc setting by hand or tool
- Standard colour RAL 7035



Model	Rated Voltage	Rated Current	Max Contact Current	Setting Range	Approvals
		A	A		
TRT2-10A230V-NCNC	110-250 V a.c.; 60 V d.c.	10	15/15	-10÷80 °C	cURus
TRT2-10A230V-NCNCF	110-250 V a.c.; 60 V d.c.	10	15/15	14÷176 °F	cURus
TRT2-10A230V-NCNO	110-250 V a.c.; 60 V d.c.	10	15/15	-10÷80 °C	cURus
TRT2-10A230V-NCNOF	110-250 V a.c.; 60 V d.c.	10	15/15	14÷176 °F	cURus
TRT2-10A230V-NONO	110-250 V a.c.; 60 V d.c.	10	15/15	-10÷80 °C	cURus
TRT2-10A230V-NONOF	110-250 V a.c.; 60 V d.c.	10	15/15	14÷176 °F	cURus



### Change-over thermostat

- Change over contact
- Snap-on fastening system DIN rail TS35
- Standard colour RAL 7035



Model	Rated Voltage	Rated Current	Max Contact Current	Setting Range
		A	A	°C
TRT-230V-S01	230 V a.c.	Heating a.c. 10(4) -Cooling a.c. 5(2)	10	5÷60



## Hygrostats

- Snap-on fastening system on DIN rail TS35
- Disc setting by hand or tool
- Standard colour RAL 7035
- UL approved till max 80% RH



Model	Rated Voltage	Rated Current	Setting Range	Approvals
		A	% RH	
IGR35F	120-240 V a.c.	10-5	10-90	cURus

