



TI-N is a wall mounted room thermostat for controling in HVAC systems. The thermostat can control fans, cooling units, electric heaters fans etc.

- * Change-over contact, 10A 250 V AC
- * Cooling or heating function
- * Protection class IP30

- * Temperature range 5...30°C
- * Setting-range can be mechanically limited
- * Hysteresis 0.6 K

Function

TI-N is an electromechanical thermostat for room mounting. The thermostat contains a pair of gas-filled bellows with a stainless steel membrane which reacts to a change in temperature by creating a movement which is transmitted to the switch. The thermostat can control a heating or cooling function.

Setpoint

The thermostat has a temperature range of 5°C to 30°C. If required the range can be limited by means of mechanical endstops behind the setting knob.

Mounting

The thermostat has mounting holes of cc 60mm and can be mounted on a standard wallbox.

Technical data

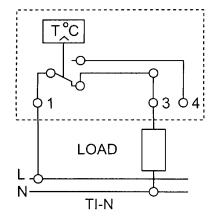
Ambient temperature 0...50°C Storage temperature -40...+50°C Max 90% RH Ambient humidity Form of protection IP30

This product conforms with the LVD standards IEC 669-1 and CE carries the CE mark

Output One changeover contact, 10 (2,5) A 250 V AC Relay

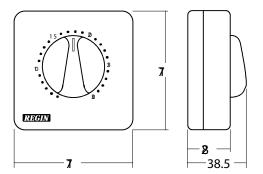
Setting 5...30°C, mechanically limited 0,6K, fixed Setpoint Hysteresis

Wiring and dimensions



Terminal 1 250 V in Terminal 2 Heating out Terminal 3 Cooling out

N.B. TI-N can be used for either heating or cooling, not both at the same time.



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TM1-50

Electronic room thermostat

TM1-50 is a one-step electronic room thermostat for controlling heating or cooling.

- Supply voltage 230 V AC
- Change-over contact for control of heating or cooling
- Contact rating 16 A, 230 V

TM1-50 is an electronic room thermostat for wall mounting. The thermostat has settable hysteresis and a change-over relay output. It is connected to supply voltage 230 V AC.

External sensor

An external sensor can be connected if the thermostat cannot be mounted at a representative location. Contact Regin for choice of sensor.

Setpoint

The setpoint is set by means of the knob on the side of the thermostat. In order to eliminate the risk of tampering, the setpoint knob can be locked by means of a locking screw under the cover.

Settable hysterisis

The thermostat is made for heating and cooling applications and switches ON at the setpoint value. The output switches OFF when the room temperature drops to the temperature level of the setpoint minus the hysterisis. For example, if the setpoint value is 35°C and the hysteresis is 5 K, the relay switches on at 35°C and off at 30°C.

- Input for external sensor
- Settable hysteresis 1...10 K
- Setpoint knob (20...50°C) can be locked

Mounting

The cover of the thermostat is held by a snap catch which is opened by depressing the locking torque in the bottom edge using a screwdriver. The screw pockets have a c:c of 60 mm to enable mounting over an inset wallbox.

Applications

TM1-50 is suitable for controlling cooling coils, fan heaters, fans, DX-cooling, solenoid valves, fan coils etc., and especially for control of ventilation fans in lift motor rooms and transformer rooms where adjustable hysterisis is often specified.



Technical data

Supply voltage 230 V AC +/-15%, 50...60 Hz

 $\begin{array}{lll} \mbox{Power consumption} & 1 \ \mbox{W} \\ \mbox{Ambient temperature} & 0...50 \ \mbox{°C} \\ \mbox{Storage temperature} & -40...+50 \ \mbox{°C} \\ \mbox{Ambient humidity} & \mbox{Max } 90 \ \mbox{RH} \end{array}$

Protection class IP20

This product conforms with the requirements of European EMC standards

CENELEC EN 61000-6-1 and EN 61000-6-3, European LVD standard IEC 60 730-2 9

and carries the CE mark.

Input

External sensor Only for Regin's NTC-sensors. Contact Regin for choice of sensor.

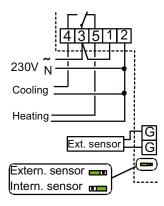
Output

Relay One change-over contact 230 V AC, 16 A, potential free

Settings

Setpoint 20...50°C Hysteresis 1...10 K

Wiring



Dimensions

Head Office Sweden
Phone: +46 31 720 02 00
Web: www.regin.se
Mail: info@regin.se

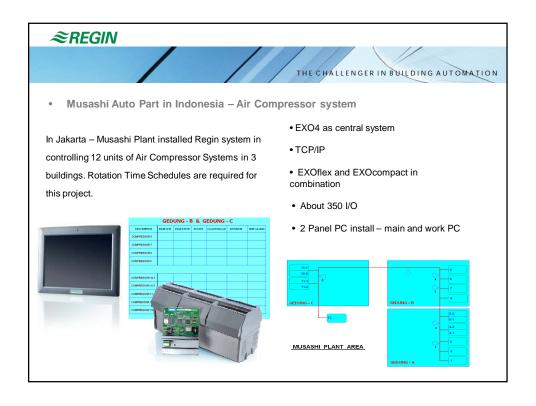
Sales Offices

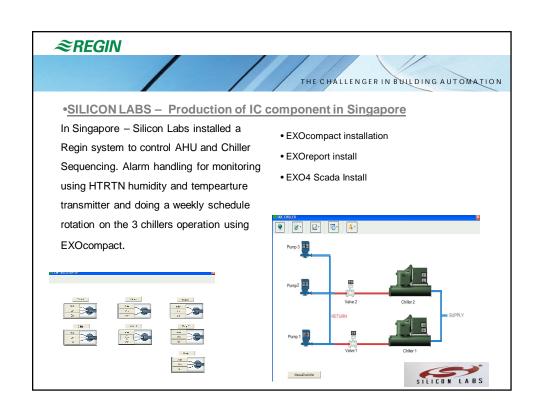
France: +33 14 171 46 46 Hong Kong: +852 24 07 02 81 Singapore: +65 67 47 82 33 Germany: +49 30 77 99 40

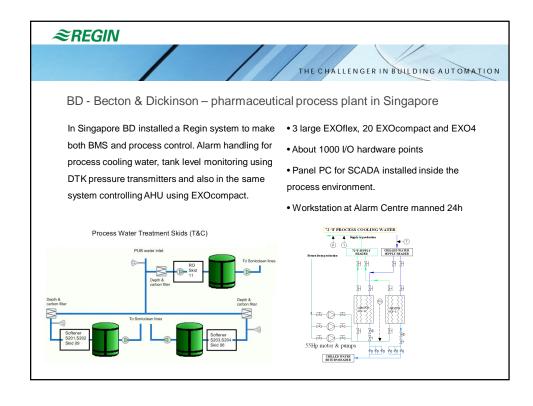


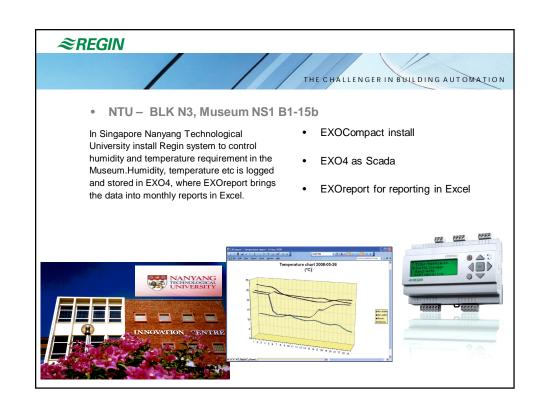




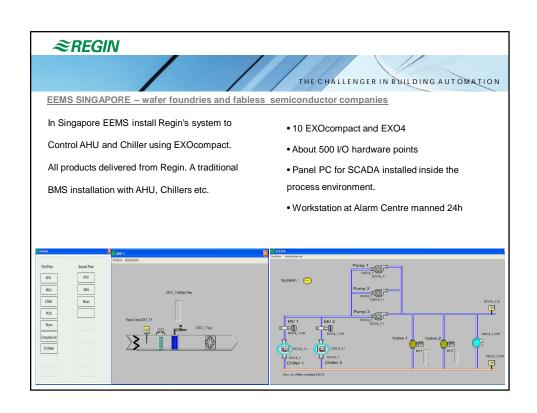


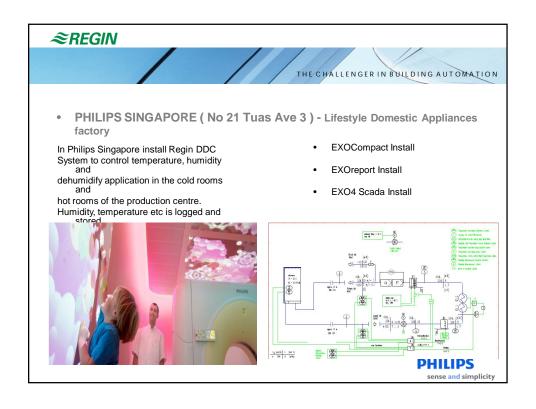
















EC DECLARATION OF CONFORMITY

We.

Watts Ind. Ibérica, S.A. Pol, Industrial Cros. Nave N°3 C/Julio Galve Brusson, s/n 08918 Badalona (SPAIN)

declare below our only responsibility that the following products:

Code:

04.03.202IG

Reference:

TI-NL "REGIN"

= TI - N

Type:

Ambient thermostat Belux

Code:

04.07.615IG

Reference:

FAN COMFORT "REGIN"

= TI - FCU

Type:

Fan Coil thermostat Ecolux

have been manufactured in accordance with the below directives:

73/23/EEC Low Voltage Directive and its modification 93/68/EEC 89/336/EEC Electromagnetic Compatibility Directive and its modifications 92/31/EEC and 93/68/EEC

following the below normatives:

EN60730-1 and EN60730-2-9 with Test Report EH660

EN50081-1, EN55014 and 55104 with Test Report 96002759

Badalona, April 16th 2003

Jose Maqueda Technical Manager