

TM2HC/D is an electronic thermostat designed for controlling heating and cooling applications

- * One stage heating and one stage cooling in sequence
- * Adjustable neutral zone
- * Supply voltage 24 V AC or 230 V AC
- * Internal or external setpoint

Function

TM2HC/D is an electronic thermostat to be used in conjunction with Regin temperature sensors. The thermostat has change over relay outputs for applications with both heating and cooling with adjustable neutral zone. TM2HC/D can be used with supply voltage 24 V AC or 230 V AC. TM2HC/D is supplied in standard casing for DIN-rail mounting with all settings accessible on the front.

Setpoint

The setpoint is set by means of the setpoint knob on the front or by means of the external setting device. TM2HC/D has a standard scale of 0...30°C. The setpoint is the temperature at which the relay H1 is deenergized.

Other scales adapted for other sensor ranges are available.

When an external setting device, e.g. TG-R430 or TBI-30, is used the built-in setpoint must be set at the counter clockwise end position.

Sensors

The TM2HC/D is intended for a sensor temperature range 0...30°C but other temperature ranges are available. See leaflet 6-100 in the main catalogue for choice of sensors.

Hysteresis

The difference in temperature between a relay's ON-point and OFF-point is fixed at 0.5K and is the same for both relays.

Neutral zone (NZ)

The difference in temperature between the relay's OFF-points is adjustable between 0.5...10K.

Indicators

TM2HC/D has LEDs to indicate supply voltage on and relay output activation. Red = heating and green = cooling.

Night Set-back

Night set-back can be initiated by means of an external time switch together with the night set-back module NS/D. See separate leaflet. This module allows night set-back to be set between 0...10 K.

Technical data

General

Supply voltage	24 V AC or 230 V AC +/- 15 % 50-60 Hz
Power consumption	Max. 5 VA
Ambient temperature	0...50°C
Storage temperature	-40...+50°C
Ambient humidity	Max. 90% RH
Form of protection	IP20



This product conforms with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1, European LVD standards IEC 669-1 and IEC 669-2-1 and carries the CE mark.

Inputs

Sensor One input for main sensor. Only for Regin NTC-sensors. See leaflet 6-100 for choice of sensor.

Setpoint When using an external setpoint the setpoint device should be connected in series with the sensor to the sensor input. Setpoint knob on TM2HC/D must be set to 0.

Night set-back If night set-back is required the NS/D should be used together with a timer.

Outputs

Relays Two SPDT (change over) relays, 230 V AC 5 (2) A. When a relay is activated the corresponding LED comes on.

Hysteresis Fixed 0.5K.

Settings

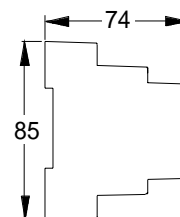
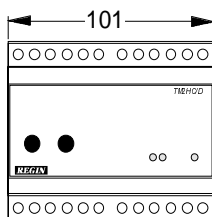
Setpoint 0...30°C. The choice of sensor determines the thermostat's setpoint range

Neutral zone 0.5...10 K. The difference between the relay's OFF-points.

Wiring and dimensions

1		Relay H1 heating
2		
3		5(2)A 230V AC
4		Not connected
5		Not connected
6		Relay C1 cooling
7		
8		5(2)A 230V AC
9		Not connected
10		Not connected
11		Not connected
12		Not connected

13	Temperature sensor
14	Signal neutral
15	Signal neutral
16	Signal neutral
17	Signal neutral
18	Signal neutral
19	Signal neutral
20	24V AC in Supply
21	Syst. neutral voltage
22	Not connected
23	230V AC Supply voltage
24	230V AC Supply voltage



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FOR INDOOR CLIMATE WITH OPTIMUM CONTROL

AB Regin

Box 116, SE-428 22 Källered, Sweden
 Visiting address: Bangårdsvägen 35

Phone: +46 31 795 44 60
 Fax: +46 31 795 38 50

www.regin.se
 E-mail: info@regin.se

Org.nr.: SE5564145502
 Säte: Mölndal