

## Datasheet

# RET2000B Digital Room Thermostat

### Features and Benefits:



RET2000B Digital Room Thermostat combines sleek modern design with high performing energy saving control. The design of the RET2000B incorporates a large display with backlight capability allowing for an easy to read display of the room temperature and output status of the thermostat in normal or dimly lit conditions. Normally the thermostat operates in an ON/OFF manner, but to increase comfort and improve energy savings a chrono-proportional control manner can be selected via a DIP switch setting.

When chrono-proportional mode is set, the

thermostat introduces a fixed cycle rate on the system and then determines the duration of the On and Off periods within each cycle in proportion to the load requirement. This control cycle is determined through a proportional + integral (PI) algorithm routine improving temperature control leading to improved comfort.

Additional features include settable upper and lower temperature limits as well as pushbutton lock to avoid tampering. If preferred the temperature display can also be set to show °C.

The RET2000B also has the option to be set as a cooling device, reversing the output logic and including compressor delay settings, for systems without a separate fan relay connection.

- Large visible digital display
- Selectable Chrono-Proportional or On/Off control
- Settable upper and lower temperature limits
- Output On Indication
- Push Button Lock
- Cooling Option with Compressor delay
- °F or °C Selectable Display

### Ordering Information:

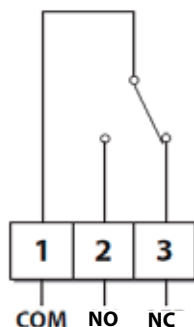
Code No.	Model	Description	Operating Voltage
087N6441NA	RET2000B	2-wire digital room thermostat	2x AA batteries (included)

**Specifications:**

Thermostat Features	RET2000B
Output	Dry Contact (Voltage Free)
Setting Temperature Range	41 - 86 °F (5 - 30 °C)
Operating Temperature Range	32 - 113 °F (0 - 45 °C)
Switch Rating	3A
Switch Type	SPDT
Battery Lifetime	Min. 2 years
IP Rating/NEMA Rating	IP20/NEMA 1
Temperature Control	Selectable ON/OFF or Chrono-proportional
Dimensions (HxWxD)	3 <sup>5</sup> / <sub>16</sub> x 3 <sup>5</sup> / <sub>16</sub> x 1 <sup>29</sup> / <sub>64</sub> in. (84 x84 x 37 mm)

**Product Conversion Table:**

New Model	Can Replace
RET2000B	RET-B, RET-B-LS

**Wiring Details:**


**NC = Normally Closed**  
**NO = Normally Open**

**Installer Settings:**
**Heating Control**

Function	Setting	Function
Chrono	1	On/Off
6 Cycles	2	3/12 Cycles
3 Cycles	3	12 Cycles
Heating	4	Cooling
°C	5	°F
Keys Unlocked	6	Keys Locked

**Cooling Control**

Function	Setting	Function
No Comp Delay	1	Comp Delay
4 Min Delay	2	2 Min Delay
Not Active	3	Not Active
Heating	4	Cooling
°C	5	°F
Keys Unlocked	6	Keys Locked

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