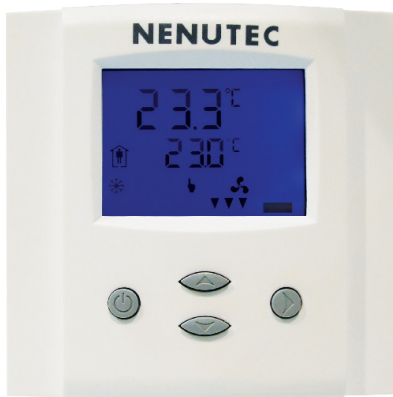


# NTC 830 SERIES FAN COIL THERMOSTAT WITH LCD

GENERAL THERMOSTAT ON/OFF CONTROL

## NTC 830 SERIES

NTC 830 series thermostat with LCD feature an On/Off control for heating and cooling with fan speed switch. The controllers are designed for use in 2-pipe or 4-pipe Fan Coil units, and a variety of heating and cooling applications controlled by water valves and damper actuator.



## PRODUCT FEATURE

- Low power energy consumption: < 1W per unit
- Relays switching for fans up to 300W
- Automatic fan control for three stage fans
- Cost saving option with Economy functionality and set point limitations
- Control for single stage heating, cooling and fan only operation modes
- Password protected programmable user and control parameters

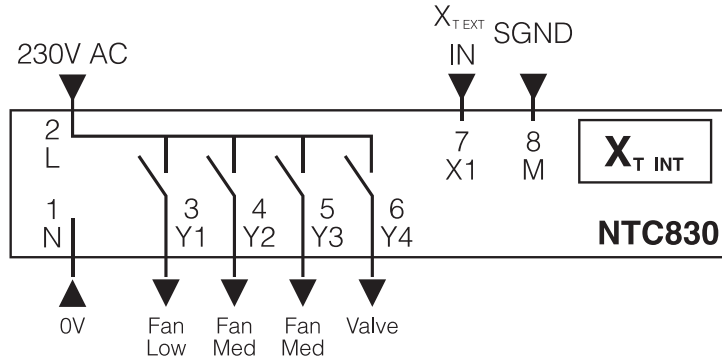
## DELUXE VERSION

- Clock and time schedule functions with power failure protection
- Blue backlight for LCD
- Infrared remote controller option, NRC830
- Power backup for real time clock (Min 48h if charge for 24h)

## TECHNICAL SPECIFICATION

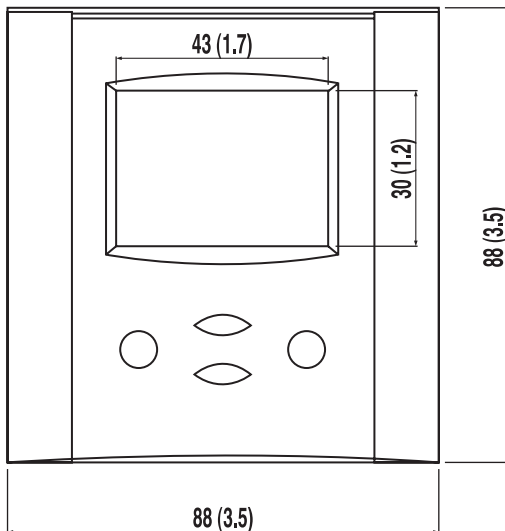
MODEL NUMBER	NTC 831DW	Off-Cool, 3-speed Fan, Single Output, Cooling, 2-pipe, AC230V, Deluxe Version, 1 External NTC or open contact input
	NTC 831W	Off-Cool, 3-speed Fan, Single Output, Cooling, 2-pipe, AC230V, 1 External NTC or open contact input
POWER REQUIREMENT	AC230V ±10%, 50/60 Hz Models	
POWER CONSUMPTION	Max 1W, 1.5 VA	
SIGNAL INPUT	Temperature Input	RT Internal
	Resolution	0.1°C (0.1°F)
	Accuracy	0.5°C (1°F)
SIGNAL OUTPUT	Digital Switching Outputs	DO1...DO4
	Switching Type	Relays
	AC Switching Power	2 (1.2) A, 250VAC (max fan power 300W)
BODY MATERIAL	Fire proof ABS plastic (UL94 class V-0)	
ENVIRONMENT (OPERATING / STORAGE)	0 to 50°C / -25 to 70°C ; <95% RH Non-condensing	
CERTIFICATION	CE and ISO 9000 (EN...requirements)	
DEGREE OF PROTECTION	IP30 to EN 60 529	
SHIPPING WEIGHT	0.260 kg	
DIMENSION	Front part: 21 x 88 x 88mm (0.8 x 3.5 x 3.5 in.)	
	Power case: 60 x 50 x 32mm (2.4 x 2.0 x 1.26 in)	

## WIRING DIAGRAM

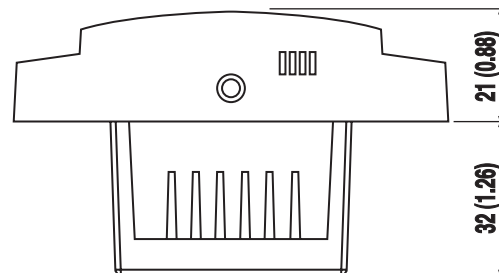


DESCRIPTION		
<b>N</b>	Power Supply:	0V Neutral
<b>L</b>	Power Supply:	230 VAC
<b>Y1</b>	Binary Output 230V AC:	Fan speed low
<b>Y2</b>	Binary Output 230V AC:	Fan speed medium
<b>Y3</b>	Binary Output 230V AC:	Fan speed high
<b>Y4</b>	Binary Output 230V AC:	Valve (Heating or cooling)
<b>X1</b>	External Input:	NTC 10kΩ @ 25°C (77°C) or Open contact to SGND
<b>M</b>	Signal Common:	0 potential for inputs

## DIMENSION AND MOUNTING INSTRUCTION



Space required in flush mounting box:  
(H x W x D)



Distance for mounting screws:  
Horizontal and vertical:  
45 to 63mm (1.8 to 2.5 in.)