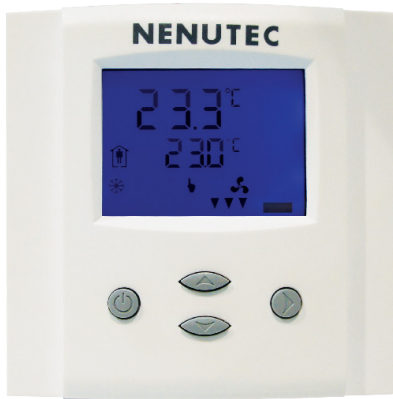


# NTC 843 SERIES FAN COIL THERMOSTAT WITH LCD

GENERAL THERMOSTAT MODULATING CONTROL

## NTC 843 SERIES

NTC 840 series thermostat with LCD feature a 3 Point Floating 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

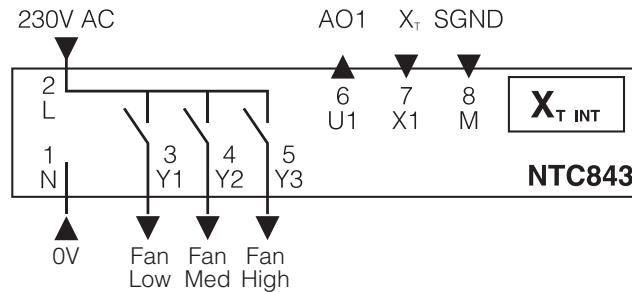
## DELUXE VERSION

- 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

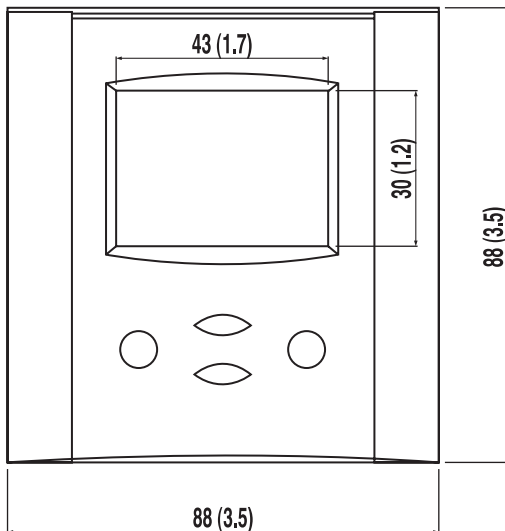
MODEL NUMBER	NTC 843DW	Off-Cool, 3-speed Fan, 0-10VDC Output, Cooling, 2-pipe, AC230V, Deluxe Version, 1 External NTC or open contact input
	NTC 843W	Off-Cool, 3-speed Fan, 0-10VDC Output, Cooling, 2-pipe, AC230V, 1 External NTC or open contact input
<b>POWER REQUIREMENT</b>	AC230V ±10%, 50/60 Hz Models	
<b>POWER CONSUMPTION</b>	Max 1W, 1.5 VA	
<b>SIGNAL INPUT</b>	Temperature Input	RT Internal
	Resolution	0.1°C (0.1°F)
<b>SIGNAL OUTPUT</b>	Digital Switching Outputs	DO1...DO5
	Switching Type	Relays
	AC Switching Power	2 (1.2) A, 250VAC (max fan power 300W)
	Analog Outputs	AO1, For TLC3-FCR-M4 AO2
	Output Signal	DC 0...10 V
	Resolution	9.76 mV (10 bit)
	Maximum Load	5 mA
<b>BODY MATERIAL</b>	Fire proof ABS plastic (UL94 class V-0)	
<b>ENVIRONMENT (OPERATING / STORAGE)</b>	0 to 50°C / -25 to 70°C ; <95% RH Non-condensing	
<b>CERTIFICATION</b>	CE and ISO 9000 (EN...requirements)	
<b>DEGREE OF PROTECTION</b>	IP30 to EN 60 529	
<b>SHIPPING WEIGHT</b>	0.260 kg	
<b>DIMENSION</b>	Front part: 21 x 88 x 88mm (0.8 x 3.5 x 3.5 in.)	

## WIRING DIAGRAM

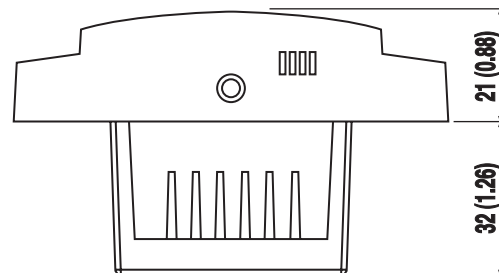


DESCRIPTION		
<b>N</b>	Power Supply:	0V Neutral
<b>L</b>	Power Supply:	230 VAC
<b>Y1</b>	Binary Output 230V AC:	Fan speed low
<b>Y2</b>	Binary Output 230V AC:	Fan speed medium
<b>Y3</b>	Binary Output 230V AC:	Fan speed high
<b>U1</b>	Analog Output:	0...10 V DC
<b>X1</b>	External Input:	NTC 10kΩ @ 25°C (77°C) or Open contact to SGND
<b>M</b>	Signal Common:	0 potential for inputs and analog outputs

## 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.)