

SpaceLogic Thermostat

TH903 for PTAC, Fan Coil, Heat Pump & Gas/Oil Furnace Applications



Product Description

The TH903 Series thermostats are optimized for office building, hotel and residential terminal HVAC control.

The TH900 Series is ideal for PTAC, Fan Coil, Heat Pump and Gas/Oil Furnace applications.

This device includes a white glass display with mechanical buttons on a white base.

The TH903 Series is a wall surface mount device that is easy to operate. These thermostats feature microprocessor-based controls and large LCD screens which display operation status (cooling, heating, auto), fan speed, room temperature and set-point.

Features

- White glass housing with mechanical buttons
- Large back-lit LCD screen
- Eco function for energy savings
- 7-day programmability
- Real-time clock keeps time during power failures
- Two aux inputs for keycard/window switch and external occupancy sensor/door switch
- Non-volatile memory (EEPROM) retains user settings during power loss
- Alert function facilitates temperature sensor maintenance
- Standalone and optional Zigbee 3.0 and Modbus communication

Available Products

Part Number	Application	Display	Fan Control	Occupancy	Aux. Inputs	Comm.	Programmability	Housing
TH903-P-W	PTAC: 1 Heat 1 Cool, FCU: 2/4-pipe	LCD, Positive	3-Speed, Auto	PIR	2	None	None	White
TH903-ZP-W	PTAC: 1 Heat 1 Cool, FCU: 2/4-pipe	LCD, Positive	3-Speed, Auto	PIR	2	Zigbee 3.0	None	White
TH903-ZPM-W	PTAC: 1 Heat 1 Cool, FCU: 2/4-pipe	LCD, Positive	3-Speed, Auto	PIR	2	Zigbee 3.0 & Modbus	None	White
TH903-DM-W	PTAC: 3 Heat 2 Cool	LCD, Positive	1-Speed	None	2	Modbus	7-Day	White

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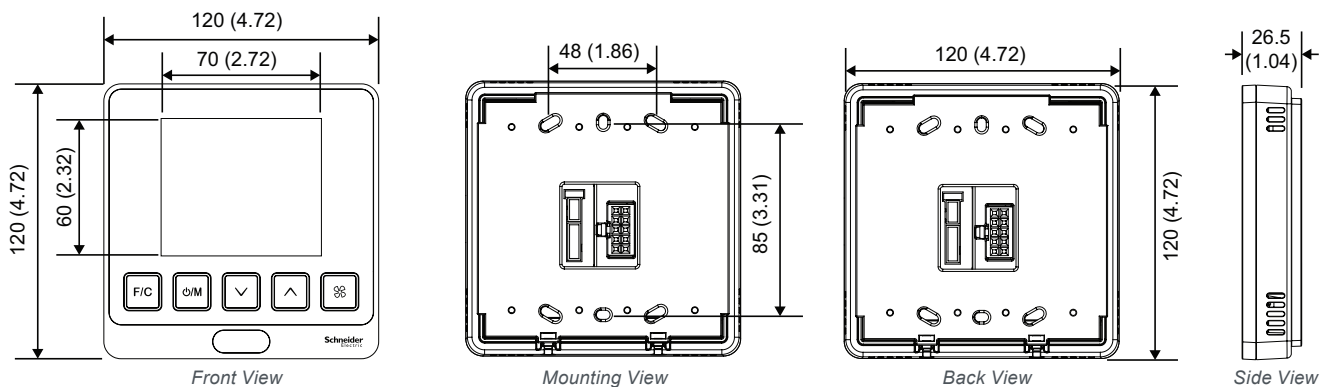
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Specifications

PTAC	Heat: max. 3 stages Cool: max. 2 stages
FCU	2-pipe, 4-pipe
Sensing element	Digital temperature sensor
Accuracy	±0.5°C @ 0 to 50°C (±1°F@32 to 122°F)
Set-point range	5 to 35°C (41 to 95°F)
Display range	0 to 50°C (32 to 122°F)
Display resolution	0.5°C (1°F)
Operating temp.	0 to 50°C (32 to 122°F)
Operating humidity	0 to 95 % RH (non-condensing)
Storage temp.	-20 to 60°C (-4 to 140°F)
Storage humidity	0 to 90 % RH (non-condensing)
PIR detection	120° (±60°)
PIR detection distance	10m at 0°, 5m at 60°, 5m at -60°
Power consumption	Standby < 0.5W
Power supply	AC 24V @ 50/60 Hz
Terminal cable	14 AWG to 18 AWG solid or stranded wire
Relay rating	3A resistive, 1A inductive
Protection class	IP 30
Housing	Flame-retardant PC
Dimensions	120 x 120 x 26.5mm (4.72 X 4.72 X 1.04 in.)
Pollution degree	Pollution Degree 2
Operation type	Type 1
Terminal sizing	Max. 2 x 1.5 mm ² or 1 x 2.5 mm ² conductors
Regulatory Information	
Agency approvals	FCC CFR 47 Part 15 Subpart B Class B RSS 247 ICES-003:issue 6 UL 60730-1 UL 60730-2-9 CAN/CSA-E60730-1 CAN/CSA-E60730-2-9 IEC/EN 60730-1 IEC/EN 60730-2-9
RoHS compliance	2011/65/EU 2015/863/EU
REACH compliance	1907/2006/EC

Dimensions mm (in.)



Communication

- Modbus
 - Configurable at 4800, 9600, 19200, 38400 & 76800 bps
 - Maximum 31 nodes per RS-485 network
- Zigbee 3.0
 - Frequency 2.4 to 2.48 GHz
 - Communication range up to 100 m LOS in open air

Functions

Set-point Adjustment – The set-point buttons allow users to adjust the set-point for the space in 0.5 °C/ 1 °F increments.

Fan Speed – Users can select fan speed (High, Medium, Low, Auto) by pressing the Fan button.

Mode Control – Users can switch operating modes (Heating, Cooling, Auto) by pressing the Mode button.

Eco Mode – Minimize the energy consumption in an unoccupied room when thermostat is ON. Provides quick resumption when people enter the room.

Occupied/Unoccupied Status – Smart logic can determine whether a room is in the occupied state on the basis of inputs such as the keycard/window switch, external occupancy sensor/door switch, and on-board PIR. When a room is determined to be in the unoccupied state, the system enters Eco mode.

Extreme Temperature Protection

- Heating mode automatically shuts down if room temperature exceeds 34.5°C (94°F)
- Cooling mode automatically shuts down if room temperature drops below 4.5°C (40°F)
- Configurable frost protection set-point range from 5 to 15°C (41 to 59°F). Default is 5°C (41°F).
- Configurable high temperature protection set-point range from 25 to 35°C (77 to 95°F). Default is 35°C (95°F).
- When room temperature exceeds the upper limit (50°C/122°F), the LCD will display 'HI'.
- When room temperature drops below the lower limit (0°C/32°F), the LCD will display 'LO'.
- When the on-board temperature sensor is open or short circuited, the LCD will display 'Er'.

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