

Hardwired, Analogue

TC-8900 & PM-8900

Room Thermostat

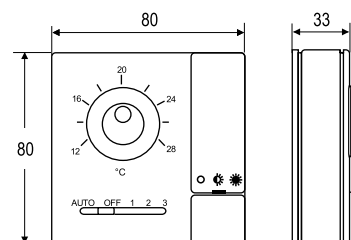
TC-8900 is a family of analogue controllers designed for control of fan coils with 2-pipe, 2-pipe with change-over, 2-pipe with electrical coil or 4-pipe configurations.

For applications without fan speed control the family includes stand alone units (TC-890x), local controllers (TC-893x) with remote setpoint module (ES-8930) and local controllers (TC-894x) with central setpoint module (ES-8940).

For applications with fan speed control the family includes the PM-8900 power modules in connection with TC-894x with or without central setpoint module (ES-8940).

Features

- 2-pipe, 2-pipe with change-over, 2-pipe with electrical coil or 4-pipe configurations with and without 3-speed fan override
- 80 x 80 mm room enclosures
- Temperature dial ranges 12...28 °C, +/-
- 24 VAC power supply for the TC-8900 controls, 230 VAC in connection the the PM-8900 power module



Dimensions in mm

TC-890x Stand Alone Controllers

Ordering Codes	Built-in NTC K10 Sensing Element	Setpoint Range	Input	Fan Output	Outputs						
			0...10 V		PAT	0...10 V	DAT	On/Off			
TC-8903-1131-WK	●	12...28 °C	---	---	1	---	---	---			
TC-8901-2131-WK					---	2	---	---			
TC-8904-2131-WK					---	---	2	---			
TC-8906-2131-WK					---	---	---	2			
TC-8903-1132-WK	---				0...40 °C	---	---	1	---	---	---
TC-8901-2132-WK								---	2	---	---
TC-8904-2132-WK								---	---	2	---
TC-8906-2132-WK								---	---	---	2
TC-8903-1151-WK	●	0...100%	●	---				1	---	---	---
TC-8903-1152-WK	---							1	---	---	---
TC-8903-1183-WK		1	---					---	---		
TC-8901-2183-WK		---	2					---	---		

TC-8900 & PM-8900 Room Thermostat

TC-893x Local Controllers with ES-8930-3031-WK remote setpoint module

Ordering Codes	Built-in NTC K10 Sensing Element	Setpoint Range	Fan Output	Outputs			
				PAT	0...10 V	DAT	On/Off
TC-8933-1112-W	---	---	---	1	---	---	---
TC-8931-2112-W				---	2	---	---
TC-8934-2112-W				---	---	2	---
TC-8936-2112-W				---	---	---	2
ES-8930-3031-WK	•	12...28 °C		---	---	---	---

TC-894x Local Controllers with ES-8940 central setpoint module

Ordering Codes	Built-in NTC K10 Sensing Element	Setpoint Range	Fan Output	Outputs			
				PAT	0...10 V	DAT	On/Off
TC-8943-1141-WK	•	+/-	---	1	---	---	---
TC-8941-2141-WK				---	2	---	---
TC-8944-2141-WK				---	---	2	---
TC-8946-2141-WK				---	---	---	2
ES-8940-4130-WK	---	12...28 °C		---	---	---	---

TC-894x Local Controllers with ES-8940 central setpoint module

Ordering Codes	Built-in NTC K10 Sensing Element	Setpoint Range	Fan Output	Outputs	Power module Ordering Codes	Configuration	
TC-8902-1031-WK	●	12...28 °C	3 Speed	1 x 0...10 VDC 1 x DAT 230 V 1 x DAT 24 V	PM-8902-0500 PM-8905-0300 PM-8905-0500	2 pipe with change over	
TC-8907-1031-WK				1 x Relay 3A 230 V/24 V	PM-8907-0300		
TC-8902-2031-WK				2 x 0...10 VDC 2 x DAT 230 V 2 x DAT 24 V	PM-8902-0500 PM-8905-0300 PM-8905-0500	4 pipe	
TC-8907-2031-WK				2 x Relay 3A 230 V/24 V	PM-8907-0300		
TC-8902-1032-WK	---			1 x 0...10 VDC 1 x DAT 230 V 1 x DAT 24 V	PM-8902-0500 PM-8905-0300 PM-8905-0500	2 pipe with change over	
TC-8907-1032-WK				1 x Relay 3A 230 V/24 V	PM-8907-0300		
TC-8902-2032-WK				2 x 0...10 VDC 2 x DAT 230 V 2 x DAT 24 V	PM-8902-0500 PM-8905-0300 PM-8905-0500	4 pipe	
TC-8907-2032-WK				2 x Relay 3A 230 V/24 V	PM-8907-0300		
TC-8942-2041-WK (only in connection with ES-8940-4130-WK)	●			+/- on local controller TC-89, 12...28 °C on ES-8940 central setpoint module			2 x 0...10 VDC 2 x DAT 230 V 2 x DAT 24 V
TC-8947-2041-WK (only in connection with ES-8940-4130-WK)				2 x Relay 3A 230 V/24 V	PM-8907-0300		

Networked

TEC2000

Room Thermostat

The TEC2000 Series Thermostat is a networked small equipment controller providing N2, BACnet® MS/TP and LONWORKS® communicating options. It offers equipment control from a single product: thermostat, controller and temperature sensor.

The TEC Series staged controllers can be used with rooftop units (with and without economizers), heat pumps and single- and multi-stage heating/cooling equipment.

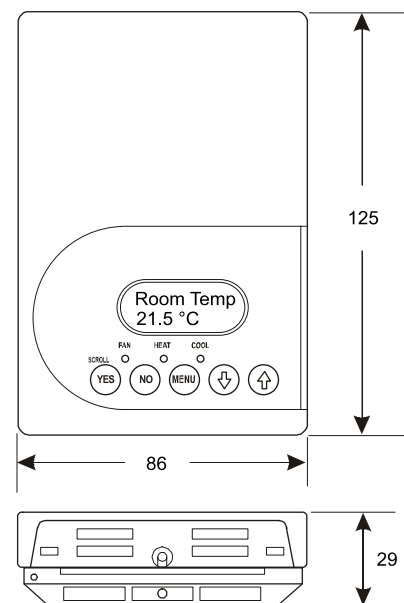
The TEC2x45, TEC2xx6 and TEC2xx7 Series controllers are available for commercial and hospitality applications, including cabinet unit heaters, perimeter heating/cooling, zoning and fan coil units.

They provide control of various two- and four-pipe fan coil equipment, have options for one- to three-speeds of fan control and offer additional application flexibility by providing advanced control signals – proportional 0 to 10 VDC, ON/OFF, or Floating.

All TEC2000 models have two configurable binary inputs for advanced functions and features over 20 configurable parameters, which enable the thermostat to be customized for any application.

The thermostat features a two-line, eight-character backlit LCD display with status texts in English.

Models with display texts in other languages are available on special requests. For easy programming and commissioning, all controllers are pre-programmed and may be configured directly using the local display and keyboard eliminating the need for separate tools.



Dimensions in mm

TEC2000

Room Thermostat

Room Thermostat

Ordering Codes	Control	Fan Control	Model Type	Application
for BACnet® MS/TP Communication				
TEC2645-4	1 Output 0...10 VDC	1 Speed	Commercial	Commercial two-pipe equipment, cabinet unit heaters, and perimeter heating/cooling
TEC2616-4	2 Outputs ON/OFF	1, 2 or 3 Speed		Two or four-pipe fan coil equipment
TEC2626-4	2 Outputs ON/OFF or Floating			
TEC2646-4	2 Outputs 0...10 VDC			
TEC2616H-4	2 Outputs ON/OFF			
TEC2626H-2	2 Outputs ON/OFF or Floating			
TEC2646H-4	2 Outputs 0...10 VDC			
TEC2627-4	2 Outputs ON/OFF or Floating	---	Commercial Non programmable	Two or four-pipe equipment, hydronic reheat valve control, and pressure dependent VAV with or without local reheat
TEC2647-4	2 Outputs 0...10 VDC			On, Off or Auto
TEC2601-4	Single Stage	Heat pump with up to 3 heating/2 cooling stages		
TEC2602-4	Heat Pump	Multi-staged packaged heating/cooling stages		
TEC2603-4	Multi Stage	Packaged rooftop units with economizers		
TEC2604-4	Economizer			
for N2 Open Communication				
TEC2145-2	1 Output 0...10 VDC	1 Speed	Commercial	Commercial two-pipe equipment, cabinet unit heaters, and perimeter heating/cooling
TEC2116-2	2 Outputs ON/OFF	1, 2 or 3 Speed		Two or four-pipe fan coil equipment
TEC2126-2	2 Outputs ON/OFF or Floating			
TEC2146-2	2 Outputs 0...10 VDC			
TEC2116H-2	2 Outputs ON/OFF			
TEC2126H-2	2 Outputs ON/OFF or Floating			
TEC2146H-2	2 Outputs 0...10 VDC			
TEC2127-2	2 Outputs ON/OFF or Floating	---	Commercial Non programmable	Two or four-pipe equipment, hydronic reheat valve control, and pressure dependent VAV with or without local reheat
TEC2147-2	2 Outputs 0...10 VDC			On, Off or Auto
TEC2101-3	Single Stage	Heat pump with up to 3 heating/2 cooling stages		
TEC2102-3	Heat Pump	Multi-staged packaged heating/cooling stages		
TEC2103-3	Multi Stage	Packaged rooftop units with economizers		
TEC2104-3	Economizer			

TEC2000 Room Thermostat

for LONWORKS® Communication

Ordering Codes	Control	Fan Control	Model Type	Application
TEC2245-2	1 Output 0...10 VDC	1 Speed	Commercial	Commercial two-pipe equipment, cabinet unit heaters, and perimeter heating/cooling
TEC2216-2	2 Outputs ON/OFF	1, 2 or 3 Speed		Two or four-pipe fan coil equipment
TEC2226-2	2 Outputs ON/OFF or Floating			
TEC2246-2	2 Outputs 0...10 VDC			
TEC2216H-2	2 Outputs ON/OFF			
TEC2226H-2	2 Outputs ON/OFF or Floating			
TEC2246H-2	2 Outputs 0...10 VDC			
TEC2227-2	2 Outputs ON/OFF or Floating	---	Commercial Non programmable	Two or four-pipe equipment, hydronic reheat valve control, and pressure dependent VAV with or without local reheat
TEC2247-2	2 Outputs 0...10 VDC			
TEC2201-3	Single Stage	On, Off or Auto		Fan coil unit, unit heaters, and single-stage packaged heating/cooling equipment
TEC2202-3	Heat Pump			Heat pump with up to 3 heating/2 cooling stages
TEC2203-3	Multi Stage			Multi-staged packaged heating/cooling stages
TEC2204-3	Economizer			Packaged rooftop units with economizers
TEC2261-3	Single Stage	---	Commercial LONWORKS Programmable	Fan coil unit, unit heaters, and single-stage packaged heating/cooling equipment
TEC2262-3	Heat Pump			Heat pump with up to 3 heating/2 cooling stages
TEC2263-3	Multi Stage			Multi-staged packaged heating/cooling stages
TEC2264-3	Economizer			Packaged rooftop units with economizers

Accessories

Ordering Codes	Description
SEN-600-1	Remote NTC K10 Room Temperature Sensor in TEC2000 Style
SEN-600-4	Remote NTC K10 Room Temperature Sensor with Occupancy Override in TEC2000 Style