

THERMOSTATS & CONTROLLERS

RESIDENTIAL THERMOSTATS, NON-PROGRAMMABLE T87, T8775 SERIES

70°

Honeywell

DESCRIPTION

The **Honeywell T87, T8775 Series** is the latest design of the most recognized thermostat in the world. The **T87** is an analog- or digital-display thermostat made for typical residential use on heating and cooling systems with either conventional heat or heat pump.



T87N1000
Non-programmable



T8775C1005
Non-programmable

FEATURES

- *Mercury-free design*
- *Traditional look for existing systems*
- *Power-stealing design (T87, T8775)*
- *°F or °C selectable (digital types only)*
- *Standard terminal designations*

SPECIFICATIONS

Supply Voltage T87, T8775	24 VAC power-stealing	Control Type	Proportional plus integral (PI)
Accuracy	±1°F (±0.5°C), (T8775) ±2°F (±1°C), (T87N)	Compressor Cycle	Adjustable cycles per hour (T8775)
Contact Rating	1A relay, (T87N) Electronic, (T8775) 0.02A to 1.5A triac	Minimum Compressor off Time	Five minutes, fixed (T8775)
System Compatibility	Conventional gas/oil and electric (all models) Heat pump, (T8775)	Wiring	18 to 22 AWG, no shield required
Display T89N	Analog Bi-Metal	Night Setback Recovery	Adaptive intelligent recovery
T8775	Digital LCD, 0.75 sq in, °F or °C, backlit	Color	White
Controls T87	Fan, system, set point	Operating Temperature T8775, T87N	40° to 110°F (4° to 43°C)
Stages	Dial and slide switches	Operating Humidity	5% to 90% RH (all models)
System Switch	1 heat and 1 cool, manually switched	Dimensions T87, T8775	Round 3.69" diameter x 1.75" deep (1.5 x 0.7 cm)
Fan Switch	Heat/Off/Cool	Weight	0.75 lb, (0.34 Kg)
Set Point Range	Auto/On	Warranty	5 years
Heat and Cool	40° to 90°F (4.5° to 32°C), (T87N)		
Heating Digital	40° to 90°F (4.5° to 32°C), (T8775)		
Cooling Digital	50° to 99°F (10° to 37°C), (T8775)		

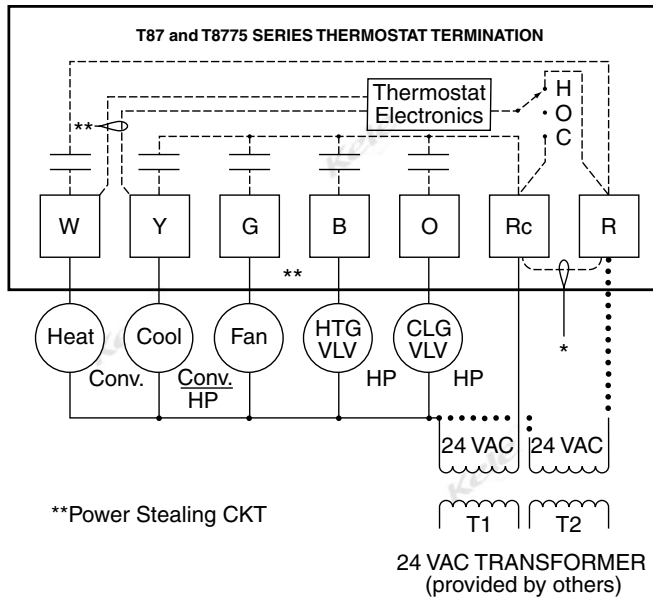
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WIRING

RESIDENTIAL ROUND		** Terminals and functions are not present on every thermostat	
T87N1000 1H/1C	T8775 1H/1C	Terminal**	Thermostat Function**
○	○	B	Change-over heating valve, (energized when in heating)
●	●	R	24 VAC power for heating (typically jumpered with Rc for common powered systems)
●	●	Rc	24 VAC power for cooling and single transformer systems
○	○	O	Changeover cooling valve, (energized when in cooling)
●	●	G	Fan relay
●	●	Y	Cooling 1st stage conventional and 1st stage heating for heat pump (B terminal energized)
●	●	W	Heating 1st stage (conventional heat)

○ = Heat pump application only
● = Conventional heating application



**Power Stealing CKT

24 VAC TRANSFORMER
(provided by others)

ORDERING INFORMATION

MODEL
T8775C1005
T87N1000

DESCRIPTION
Round digital thermostat 1H/1C (conventional or heat pump), system (H/O/C), fan auto/on
Round analog thermostat 1H/1C (conventional or heat pump), system (H/O/C), fan auto/on

ACCESSORIES

50000066-001
50010944-001

Round decorative cover plate, 5.5" diameter (T87)
Range stops for T87 thermostats