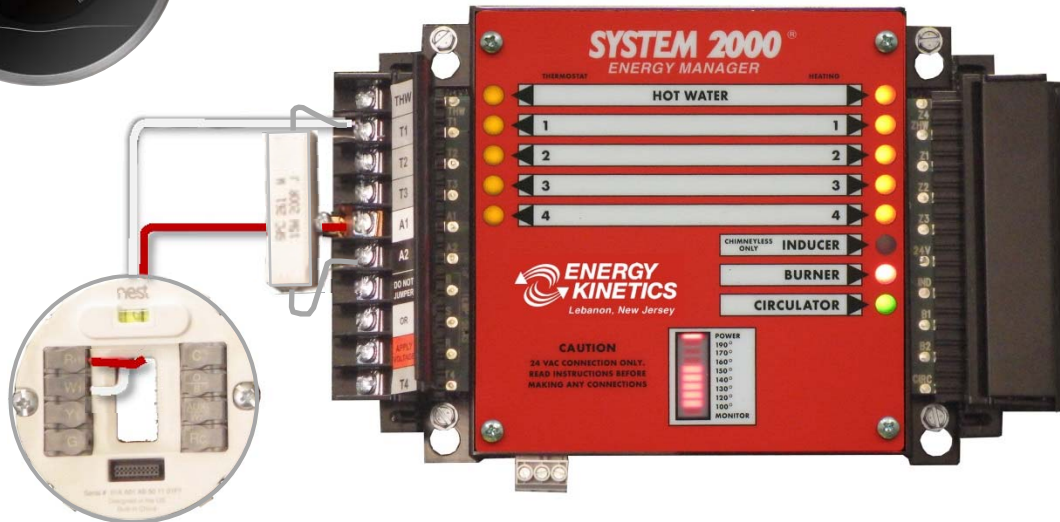


Nest & Other Power “Sharing” Thermostat Wiring Options



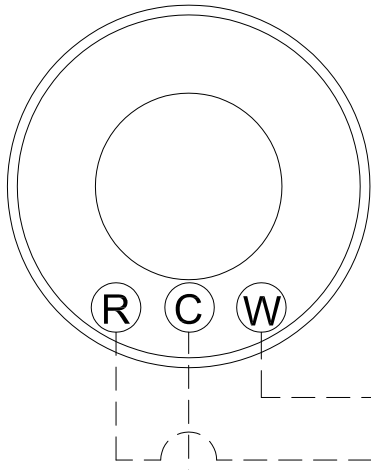
Power sharing thermostats like the Nest may cause false signals and erratic manager behavior. Below are (4) wiring methods that allow proper operation.



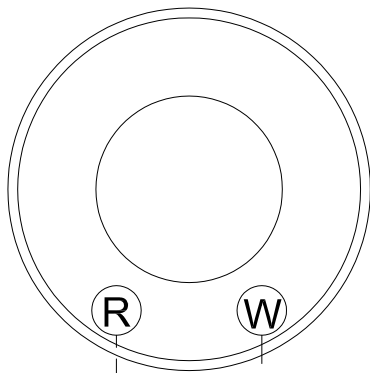
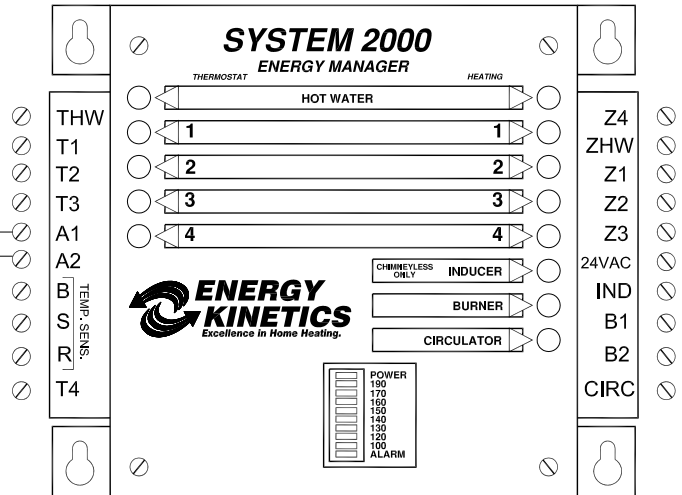
Zone 1 connection shown. Connect red wire to A1. Connect white wire to T1 for zone 1, or to T2, T3, or T4 for zones 2, 3, or 4 respectively. Connect resistor to A2 and T1 (if zone 1); similarly connect the resistor to A2 and T2, T3, or T4 for zones 2, 3, or 4 respectively.

Notes: Wiring applies to Digital Energy Manager (shown) and Classic Energy Manager with red labels used on System 2000 and 90+ Resolute™. No wiring modifications are required for the Accel CS™ Condensing Energy Manager, which has a blue label.

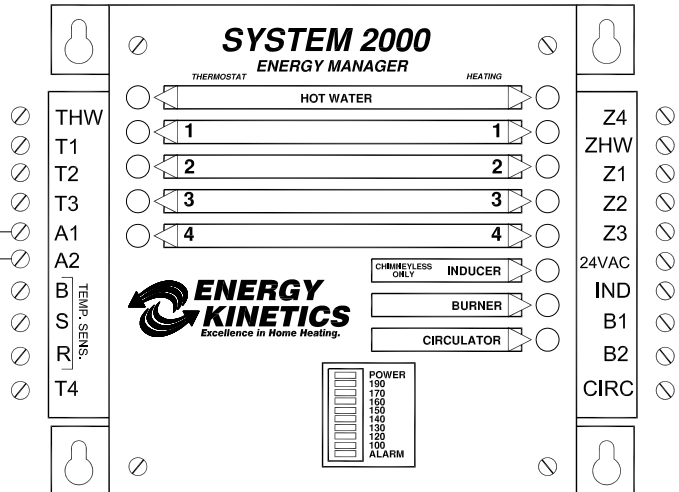
Wiring Options	Considerations
1) Installed with Air Conditioning.	Nest uses power from the air conditioning equipment. No wiring modifications are required.
2) Add a resistor to the Nest thermostat zone (shown above).	Low cost, quick and easy installation. Mouser Part #: 280-CR15-200 RC Manufacturer: Xicon Mouser Part #: 588-TUW15J200E Manufacturer: Ohmite Resistors available from www.mouser.com
3) Provide a transformer to power the Nest thermostat along with isolation relay.	See drawing SYS-08-031. Relays and transformers are commonly found on HVAC service vehicles.
4) Provide a common power wire.	If the existing thermostat cable has a spare wire, connect A2 to C terminal to provide the Nest Thermostat with power.



NEST THERMOSTAT USING 3 WIRES AND USING BOILER TRANSFORMER FOR POWER



NEST THERMOSTAT USING 2 WIRES USING 15 WATT 200 OHM **RESISTOR (NEST USING 2 WIRES. MUST USE RESISTOR AS SHOWN OR ISOLATED FROM MANAGER WITH A RELAY




****Resistor between
A2 and Tx**

*Tx CAN BE T1, T2, T3 OR T4

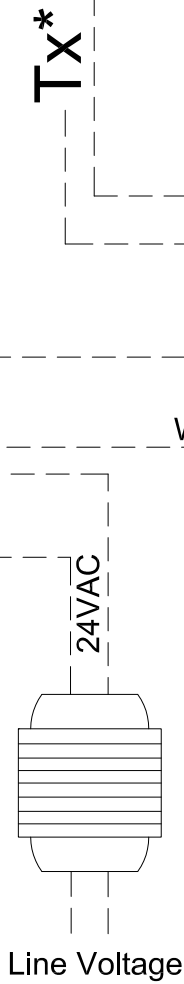
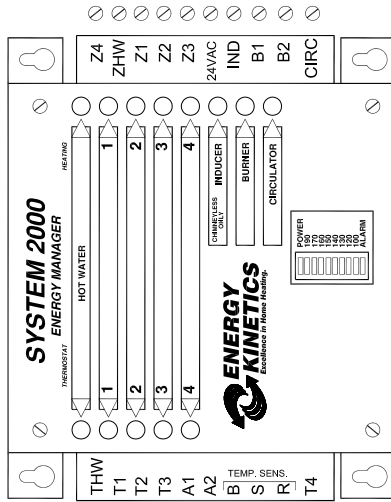
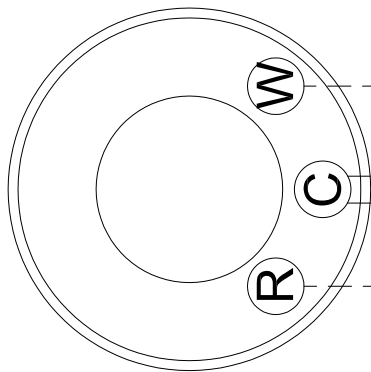
**RESISTOR: 200 OHMS, 15 WATTS

MOUSER PART#: 280-CR15-200-RC MANUFACTURER: XICON

MOUSER PART#: 588-TUW15J200E MANUFACTURER: OHMITE

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	 51 MOLASSES HILL RD, LEBANON, NJ 08833			
DIMENSIONS ARE INCH [MM] TOLERANCE ON: .XX ± .XXX ± ANGLES ± FRACTIONS ±	DRAWN JS CHECKED ENGRG APPVD	12/12/14			DWG TITLE WIRING THE NEST THERMOSTAT TO THE DIGITAL MANAGER	
MATERIAL			USED ON	SIZE A	DWG NO. SYS-08-031	REV 1
FINISH			NEXT ASSY	SCALE ---	SHEET 1	OF 2
SPECIAL TREATMENT						

NEST THERMOSTAT
 USING AN ISOLATION RELAY AND A
 SEPERATE TRANSFORMER



Tx*

N/O CONTACT LEADS

ORANGE
 YELLOW

WHITE/BLUE


WHITE / YELLOW

24VAC COIL LEADS

EK# 10-0412-RIB
 (RIB# 2421C)
 24V/120VAC
 RELAY SPDT

***Tx CAN BE T1, T2, T3 OR T4**

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
DIMENSIONS ARE INCH [MM] TOLERANCE ON: .XX ± .XXX ± ANGLES ± FRACTIONS ±	DRAWN JS	12/1/14
	CHECKED	
	ENGRG	
	APPVD	
MATERIAL		
FINISH		
SPECIAL TREATMENT		



**51 MOLASSES HILL RD,
 LEBANON, NJ 08833**

DWG TITLE WIRING THE NEST THERMOSTAT TO THE DIGITAL MANAGER

USED ON	SIZE A	DWG NO. SYS-08-031	REV 1
NEXT ASSY	SCALE ---	SHEET 2 OF 2	