

E528 4G 24VAC Wiring Guide

INNtool Support Material: Wiring 24VAC

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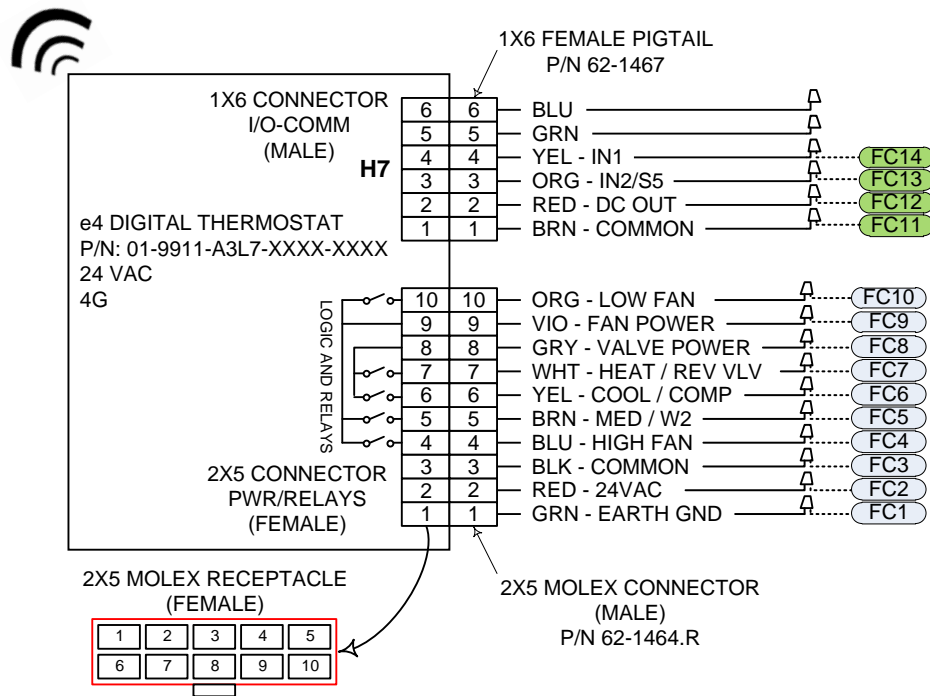
- **DISCONNECT POWER BEFORE BEGINNING INSTALLATION. ELECTRICAL HAZARD:** Can cause electrical shock or equipment damage.
- **Must be installed by a trained , experienced technician.**
- **See device specific product guides for load specifications.**

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1. Wiring Guide 24VAC Power Supply (“A3” option)

See detailed wiring guides for specific system types on the following page.



2. Thermostat wire connections:

HVAC INTERFACE

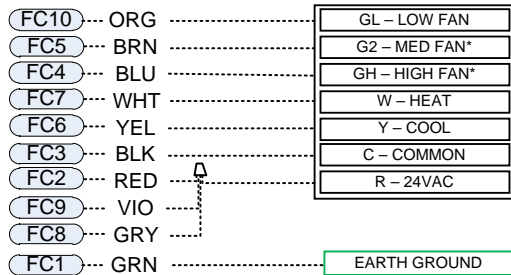
Connection	Color	Function
FC1	Green	EARTH GROUND
FC2	Red	24 VAC POWER
FC3	Black	24 VAC COMMON
FC4	Blue	HIGH FAN RELAY
FC5	Brown	MED FAN RELAY/ HEAT RELAY(STAGE 2)
FC6	Yellow	COMPRESSOR CONTACTOR
FC7	White	HEAT RELAY(STAGE 1)/ REVERSING VALVE
FC8	Grey	24 VAC VALVE POWER
FC9	Violet	24 VAC FAN POWER
FC10	Orange	LOW FAN RELAY

LOW VOLTAGE INTERFACE

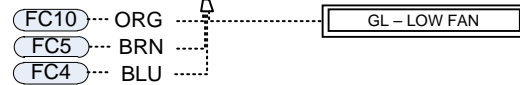
Connection	Color	Function
FC11	Brown	DC GROUND
FC12	Red	DC OUT
FC13	Orange	S5 BUS / INPUT 2
FC14	Yellow	INPUT 1

3. System Specific Wiring Guides

Generic Single Stage Heat/Cool

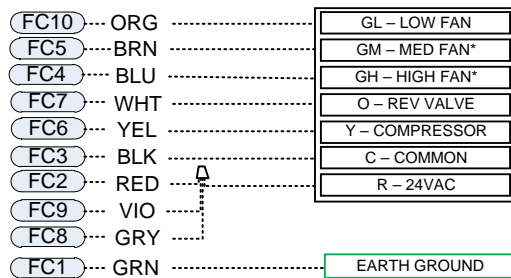


Unused Fan Outputs

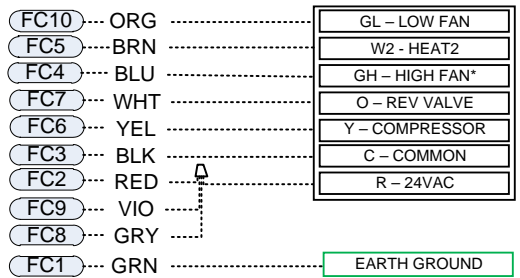


*Unused fan outputs in any HVAC Type shall be tied to FC10

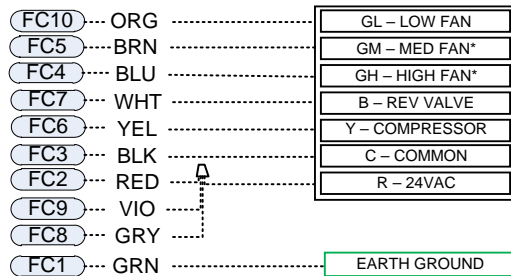
Heat Pump North (HpO)-Single Stage Heat



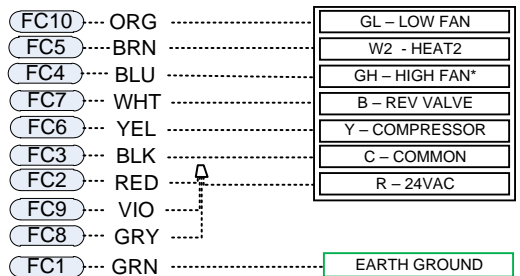
Heat Pump North (HpO)-Two Stages Heat



Heat Pump South (HpB)-Single Stage Heat

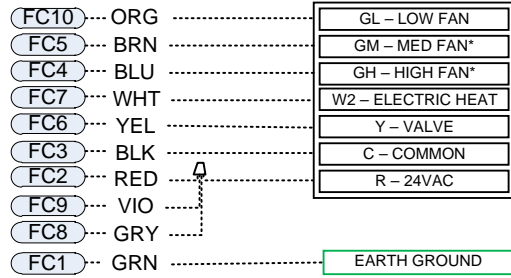
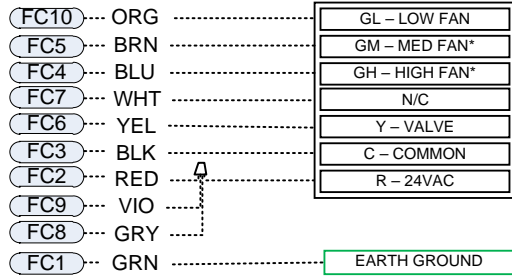


Heat Pump South (HpB)-Two Stages Heat

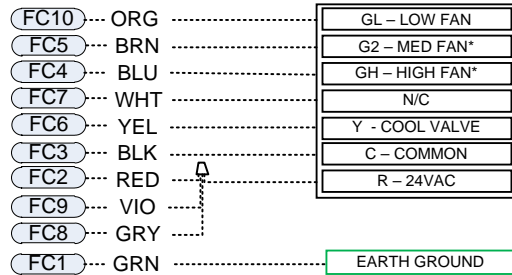


2 Pipe Change-Over

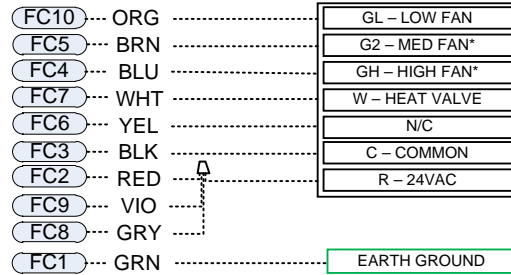
2 Pipe Change-Over with Back-up Electric Heat



Cool Only System



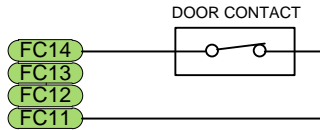
Heat Only System



4. Low Voltage Wiring

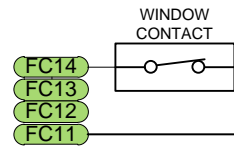
Door Contact Only

Closed Door=Closed Contact

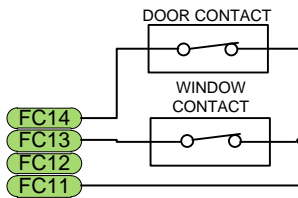


Window Contact Only

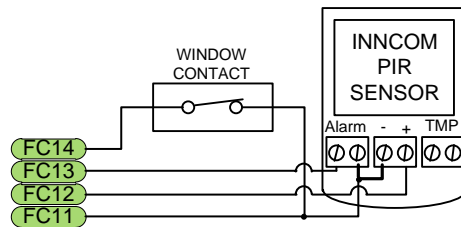
Closed Window=Closed Contact



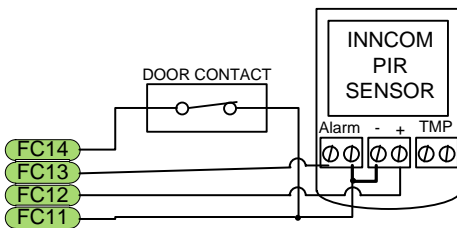
Door & Window Contact



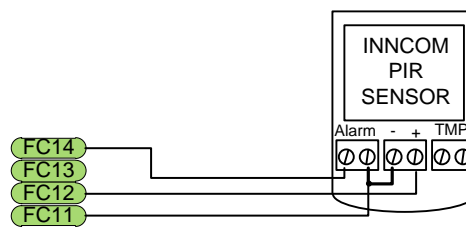
Window Contact & PIR Sensor



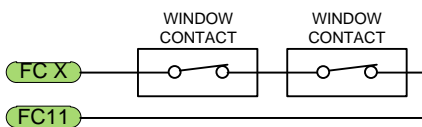
Door Contact & PIR Sensor



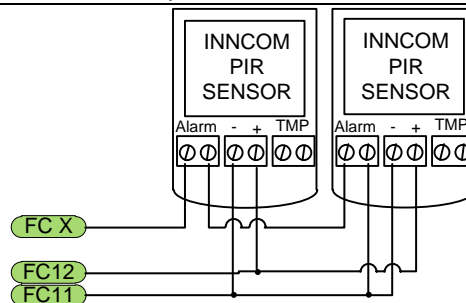
PIR Sensor Only



If Multiple Window Contacts in Series

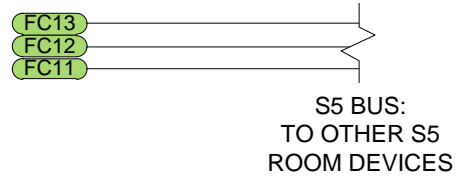
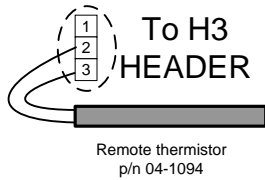


If Multiple PIR Sensors in Series



Remote Thermistor

S5 Bus



5. Document Information

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