

TECHNICAL BULLETIN

TOPIC: SUBSTITUTING GOOGLE/NEST WIFI LEARNING THERMOSTAT* CONTROL FOR USE WITH STEP HEAT EPI-LX-R SERIES POWER SUPPLIES

OVERVIEW:

For clients seeking Wi-Fi functionality to control a STEP HEAT radiant heat system, GOOGLE NEST Wi-Fi Learning Thermostats* may be substituted, yet with the following application and operating caveats:

1. Only use for **Primary Heating Applications** given GOOGLE NEST does not currently have floor sensor mode capability.
2. Solid copper wire conductors (3) must be used for wiring between the STEP HEAT transformer signal board and GOOGLE NEST Thermostat.
3. The STEP HEAT system will not run as efficiently using GOOGLE NEST versus a STEP Touch Thermostat due to a proprietary logic algorithm which monitors and pulses the heating elements for tighter temperature control and improved efficiency.
4. In the event wither device fails for some reason, both manufacturers reserve the right to void the standard warranty. To date we know of no reported failures.
5. As all radiant systems directly heat its surrounding mass which takes longer time when compared to conventional systems. It is not recommended activating GOOGLE NEST's DAILY/WEEKLY PROGRAMMING and self-learning features as it can negatively impact both comfort expectations and efficiency performance.
6. During the initial GOOGLE NEST APP on-line start up procedure, GOOGLE NEST currently identifies the wiring scheme as something other than an **electric radiant heat** system. This is a misnomer only and does not impact functionality.

NOTE*- GOOGLE NEST's Non-Learning Thermostat (less expensive) will NOT integrate with STEP system.

WIRING DIAGRAM

