

FireRight

Warner Instruments

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TECH MEMO

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Re: **KilnTronics Model 09VR Wiring Variations**

The KilnTronics Model 09VR kiln temperature/rate controller was supplied with three wiring variations.

The hook-up shown in Drawing No 470323 is the preferred method for direct-wired controllers. As shown on the drawing, a solid state relay is used to interface the controller with the contactor's solenoid coil. Isolating the coil in this manner helps reduce electrical interference caused by the coil's inductance, which sometimes causes "chattering".

This connection requires that the controller be factory-configured to provide a dc output signal for the solid state relay. Any solid state relay having a 3-32vdc input and a 240vac output may be used, and there are many varieties from which to choose. The types shown on the drawing are the types originally used for factory installations.

Early versions of the 09VR provided a contact output, instead of a dc output. These require no solid state relay, and may be connected directly to the contactor's coil. Referring to Drawing No 470323, connect the BROWN (BRN) wire to the contactor's "L1" terminal, then connect the RED wire to the contactor's open "C" (coil) terminal.

Dwg No 470323 (113Kb)

