



Warner Instruments

1320 Fulton Street
Grand Haven MI 49417-1534
Phone: 616-843-5342

TECH MEMO

Author: Gene Warner
Date: 03/01/2014
No of Pages: 1

Re: Replacing FireRight jr II units with AutoMate II's

Background

The FireRight jr II Kiln Turn-Up Controller is still accepted for service as of this date, but is no longer in production. Replacement units are therefore not available for units that are damaged beyond repair. In that event, we recommend that the FireRight jr II unit be replaced with the simpler and less expensive AutoMate II Automatic Kiln Switch. The AutoMate II is functionally similar to the FireRight jr, being a device designed to automatically "turn up" ceramic kilns according to a user-adjustable schedule. It also has "SET" and "HOLD" functions, but does not have a bar graph display showing the progress of the turn-up sequence.

Mechanical Retrofit

The mounting panel of the AutoMate II kiln switch is similar to that of the FireRight jr II, but is slightly wider, and slightly shorter. Nevertheless, the AutoMate II can be mounted at the same location previously used for the FireRight jr II.

To mount the new unit, center its panel at the mounting location of the original unit, and carefully mark the new locations for its four mounting screws, one at each corner of the panel. If carefully marked, these will fall just outside the holes previously used for the FireRight jr II panel. Use an awl or a small, sharp center punch to accurately provide a pilot point at each location, and then drill 7/64" dia. holes to accommodate #6 self-tapping or "sheet metal" screws.

Electrical Hook-Up

The wiring originally provided for the FireRight jr II can be re-used to connect the new AutoMate II. Most all FireRight jr II units were shipped on kilns wired for 208—240vac. Swap the connections as follows:

From <i>FireRight jr II</i>	To <i>AutoMate II</i>
L1	L1
a	b
b	c
L2	L2
H1	H1
H2	H2