

De-Mar & Associates, Inc.

Parker & Foster Division

Over 60 Years of Industrial Supply!

ENGINEERED SOLUTIONS

Issue NO. 1

Application - Pizza oven restaurants require a reliable, easy to use pizza oven control. A vast majority of these restaurants have older ovens with original controllers that need to be updated.

Solution - Barber-Colman/Eurotherm Model #7EM-43110-300, Model #7SC-43712-300, Model #7SH-49110-300.

Report - De-Mar & Associates has the inventory and expertise to retrofit almost any pizza oven or industrial furnace on the market. A prime example is the conversion of the Omron Model #E5CS-X to the Barber-Colman Model #7SH-49110-300. Before each unit is shipped - the controllers are configured for the application, outputs and inputs tested, and a wiring diagram is included for easy retrofit. Both units are 1/16 DIN size, so the Barber-Colman Model #7SH-49110-300 slides into the square hole vacated by the Omron unit.



Omron #E5CS-X



Barber-Colman #7SH

| Omron #E5CS-X | Barber-Colman #7SH-49110-300 |
|--|---|
| Terminal #10 - POWER | Terminal #10 - POWER |
| Terminal #9 - POWER | Terminal #9 - POWER |
| Terminal #8 - Normally Open Main Relay | Terminal #8 - Normally Open Main Relay (GAS) |
| Terminal #7 - Common Main Relay | Terminal #7 - Common Main Relay (GAS) |
| Terminal #5 - Alarm Relay | Terminal #5 - Alarm Relay |
| Terminal #4 - Alarm Relay | Terminal #4 - Alarm Relay |
| Terminal #2 (Thermocouple -) | Terminal #2 (Thermocouple -) |
| Terminal #1 (Thermocouple +) | Terminal #3 (Thermocouple +) |

Reference: Wiring diagram included to convert Omron #E5CS-X to Barber-Colman #7SH-49110-300 (Relay/Relay for Solenoid Valve **GAS** Application).

A second example is the updated conversion of the older, analog style Barber-Colman Model #121A-10016-031-1-00 controller to the new Barber-Colman Model #7EM-43110-300. Again, before each unit is shipped - the controllers are configured for the application, inputs and outputs tested, and a wiring diagram is included for easy retrofit. The Barber-Colman Model #121A controller is 1/4 DIN size, so the Barber-Colman Model #7EM requires an adapter plate to cover the existing hole. The adapter plate is pre-fabricated black plate with (4) mounting holes designed to accept the 1/8 DIN size Model #7EM..



Barber-Colman #121A



#7EM with Adapter Plate

The Barber-Colman Model #7SC-43110-300 is used to replace Middleby Marshall Model #36939 and #47321. Replacement unit is configured for the application, inputs and outputs tested, and a wiring diagram is included for easy retrofit. The Model #7SC also requires a pre-fabricated black plate with (4) mounting holes to cover the existing hole left by the original controller.



Middleby Marshall
#36939 and #47321



#7SC with Adapter Plate

All controllers, thermocouples, and accessories are stock in our Overland Park, KS location! Additional information for these applications can also be found on our website - www.pizzaovencontrol.com

Does your application require an engineered solution? Call today: 913-381-6810