

## Middleby Cooking Systems Group



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**SUBJECT:** Digital Temperature Controller Varistor and Case Usage

### GENERAL

It has come to our attention that there is some confusion on the application of varistors and temperature controller case usage with new and later model Honeywell temperature controllers versus the NCC temperature controller.

### APPLICATION

If you encounter an NCC Digital Temperature Controller, p/n 36021, (gold case with a gray overlay on a steel face) you will notice that there are no varistors across its thermocouple terminals and AC voltage input terminals. **THIS IS NORMAL AND DOES NOT REQUIRE EXTERNAL VARISTORS.**

All of the Honeywell Digital Temperature Controllers have the varistors externally across the thermocouple terminals and the AC voltage input terminals.

Do not swap a Honeywell temperature control module into an NCC case or an NCC temperature control module into a Honeywell case. They are not perfect matches and can cause damage to the either controller.

See the diagram on the back side of this bulletin for further details.

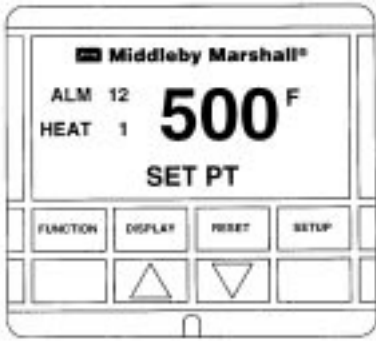
### COMPATIBILITY

- **Do not** add varistors to the NCC version temperature controller
- **Do not** swap digital temperature control modules with unlike cases

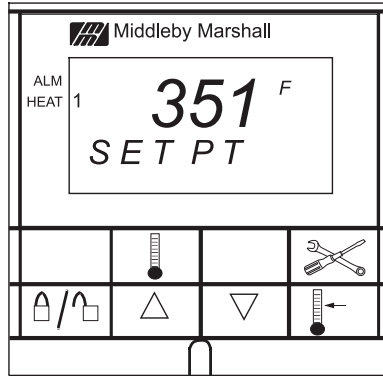
### AVAILABILITY

Be advised that the only digital temperature controller available as a replacement part is the Honeywell On/Off - PID Temperature Controller, kit p/n 36939. Refer to Service Bulletin MM-164 sent December 7, 1998.

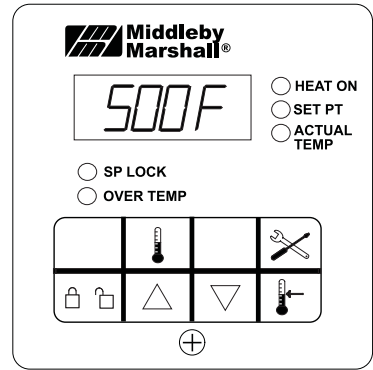
Front Views of Honeywell Digital Temperature Controllers made for Middleby Marshall



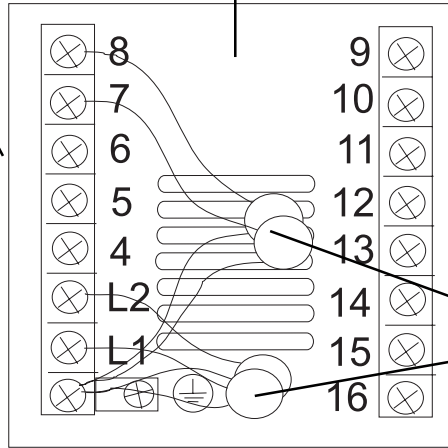
OR



OR



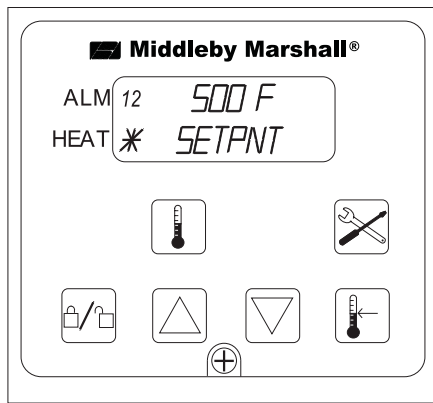
Rear View



Black Case

Varistors

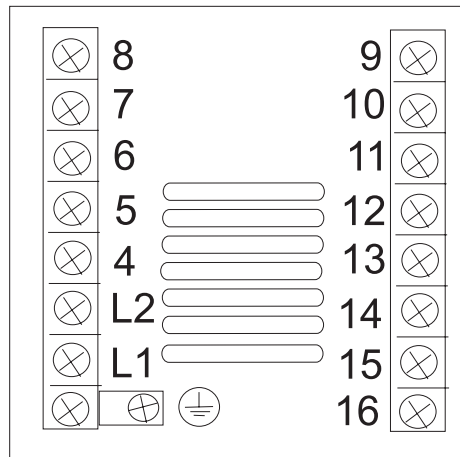
NCC Digital Temperature Controller, p/n 36021, made for Middleby Marshall



Front View

**DO NOT SWAP CONTROLLERS BETWEEN THESE CASES**

Note: NCC Digital Temperature Controllers do not have external varistors. DO NOT ADD EXTERNAL VARISTORS TO THIS CONTROLLER.



Gold Case

Rear View