

## OMEGA MODEL CN8100 ADDENDUM

The new version of software for CN8100 (v2.0) has the autotune feature built in. The feature of autotuning takes effect ONLY at start-up (when power is applied to the CN8100). During the start-up sequence the state of menu item  $\Delta U$  is checked and the autotune feature is started accordingly.

The options of menu item  $\Delta U$  are as follows:

D S - Disabled - autotuning is NOT started - device goes directly to PID mode.

OrE - do autotuning once - after start-up CN8100 completes autotuning, it sets  $\Delta U$  item in menu to D S and passes control to PID. (if autotuning is successful)

E.E - do autotuning every time CN8100 starts. CN8100 autotunes every time it starts and passes control to PID mode. The menu item  $\Delta U$  is NOT affected. (if autotuning is successful).

In case the autotuning procedure is NOT successful the CN8100 stops, displays the following error codes and menu item  $\Delta U$  is set to D S.

There are 4 error codes possible:

AE5 - autotune cannot start because the controller does not have the needed output. i.e. cannot do a cool tune if the controller does not have a cool output.

AE6 - Cannot start autotune because PV (present temperature) and SP (setpoint) are too close. (100° separation recommended).

AE7 - autotune aborted due to timeout .

AE8 - autotune failed.

CN8100 must be restarted.

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