



Application Note

DC 2000
Conditional Alarms

Problem:

Set up a DC2000 with (4) Thermocouple inputs. Set a High Alarm setpoint for each channel of 133 F. When all (4) T/C have reached 133 F, start a 30 minute timer. At the end of 30 minutes, close a relay.

Solution:

This application shows how to work with constants (K), conditional statements, alarms and alarm delays.

Program (4) channels (Points) as you normally would, selecting the appropriate T/C setting, etc.

Program channel 5 as a Conditional Channel.

Under "Program" – "Points" – "Constants" – **Define K1** –Enter – **133** – Enter - Exit.

"Prog Point" – **point? 5** for Channel 5. Enter, "Setup pt" –Enter -

"Conditional" – "Set Cndtionl". The formula to enter here is: **(P1>=K1)& (P2>=K1)& (P3>=K1)&(P4>=K1)** - Enter

Arrow Down to "Alarms" –"Alm limits" **Alarm # 1**. Enter. "Type = True" **Contact # 1** . Enter - Exit
"Alm Delay" – **Seconds 1800** . Enter & Exit, Exit. **Keep Setup** , **Yes** .Exit.