



Siemens Economizer Controller with Demand Control Ventilation (DCV)

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- Demand Control Ventilation (DCV)
- The controller modulates the outside air damper based on the CO2 level through the ppm value selected between the range of 500 and 2000 ppm.
- The measured CO2 concentration value is compared with the set DCV setpoint.
- If the measured CO2 concentration value is below the DCV setpoint, it will keep the damper to the minimum position. Otherwise, disable DCV.

- If the measured CO2 concentration value is above the DCV setpoint, it will enable DCV.
- Once DCV is enabled, the DCV PID starts to run to control the indoor CO2 concentration value towards the DCV setpoint. The damper opens to the maximum position.
- DCV is disabled if the controller receives no occupancy signal.

- Enter the configuration state by pressing the up arrow to 5CONFIG STATE, then press ENTER twice.
- 6OCC must be set to TSTAT
- 6AUX-AI1 must be set to CO2.
- 6X-AI1 SIG must be set to the voltage that of the CO2 Sensor signal output voltage. (0-5, 2-10 or 0-10)
- 6CO2 RNG L set to 500.
- 6CO2 RNG H set to 2000.
- Enter 8Run State and press Enter Twice to save.
- Enter 5RESTART and press Enter Twice.

- 2DCV is setpoint, set to your job requirements (500-2000)
- 2VENTMAX L set voltage output for required CFM at Low Fan Speed.
- 2VENTMAX H set voltage output for required CFM at High Fan Speed.
- 2VENTMIN L set voltage output for required CFM at Low Fan Speed.
- 2VENTMIN H set voltage output for required CFM at High Fan Speed.

- After all settings are made, do the following:
- Enter 8Run State and press Enter Twice to save.
- Got to 5RESTART, press Enter Twice.

- Siemens POL224.00 Application Guide
- Carrier IIK-CRECON-SRT-01
- Carrier IIL-CRECON-AHU-01



THANK YOU