

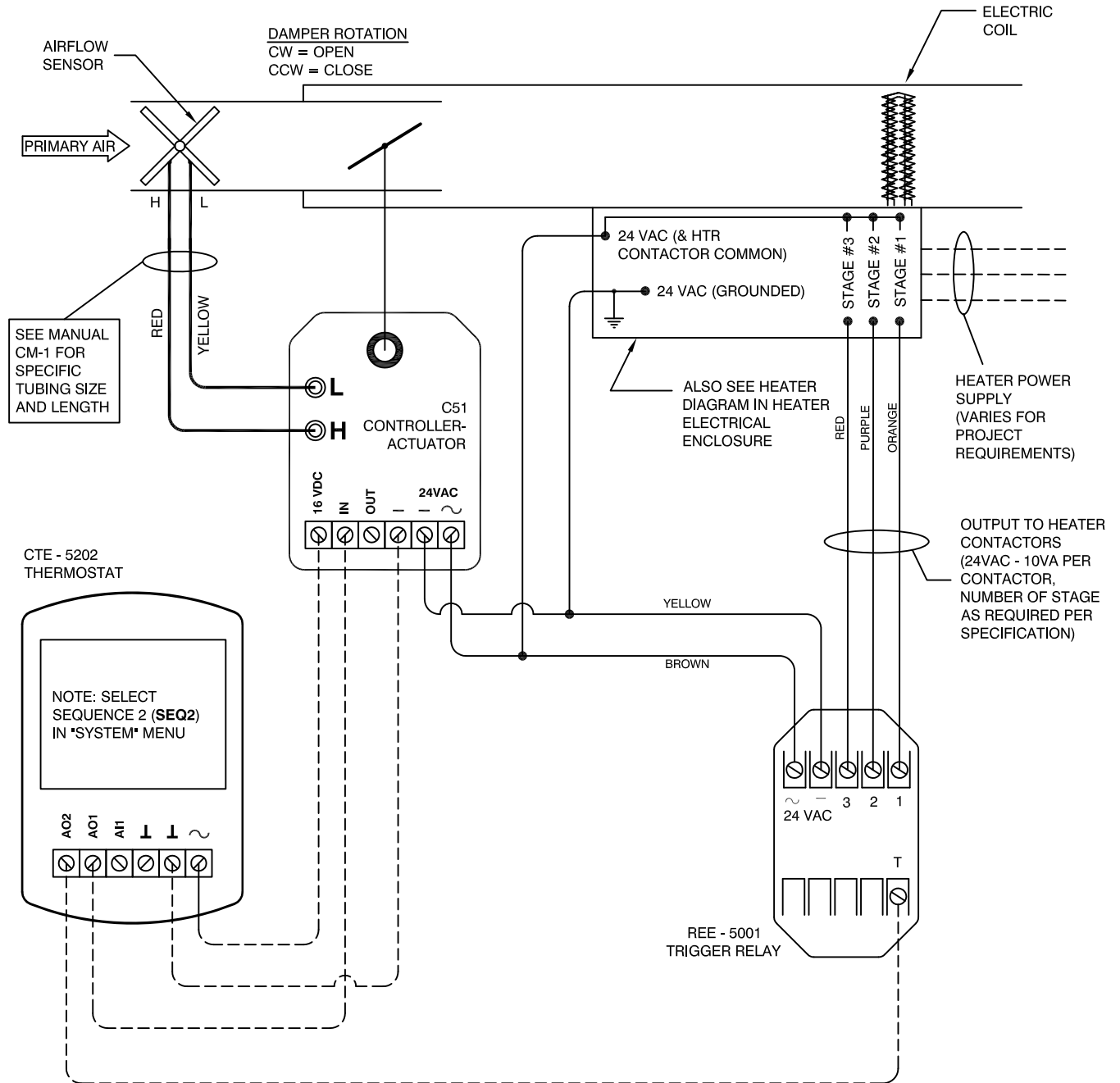
ANEMOSTAT[®]

AIR TERMINAL CONTROLS

Control Package

SD - A - 5201

- SINGLE DUCT
- ANALOG ELECTRONIC CONTROLS
- VAV COOLING
- ELECTRIC HEAT - STEP CONTROL
- PRESSURE INDEPENDENT
- AIR FLOW SETPOINTS ADJUSTED AT THERMOSTAT

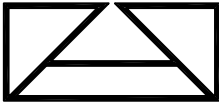


————— FACTORY WIRING
 - - - - - FIELD WIRING
 ———— FACTORY PIPING

REFER TO ANEMOSTAT "CONTROLS MANUAL" (CM-1) FOR ADJUSTMENT & TROUBLESHOOTING PROCEDURES.

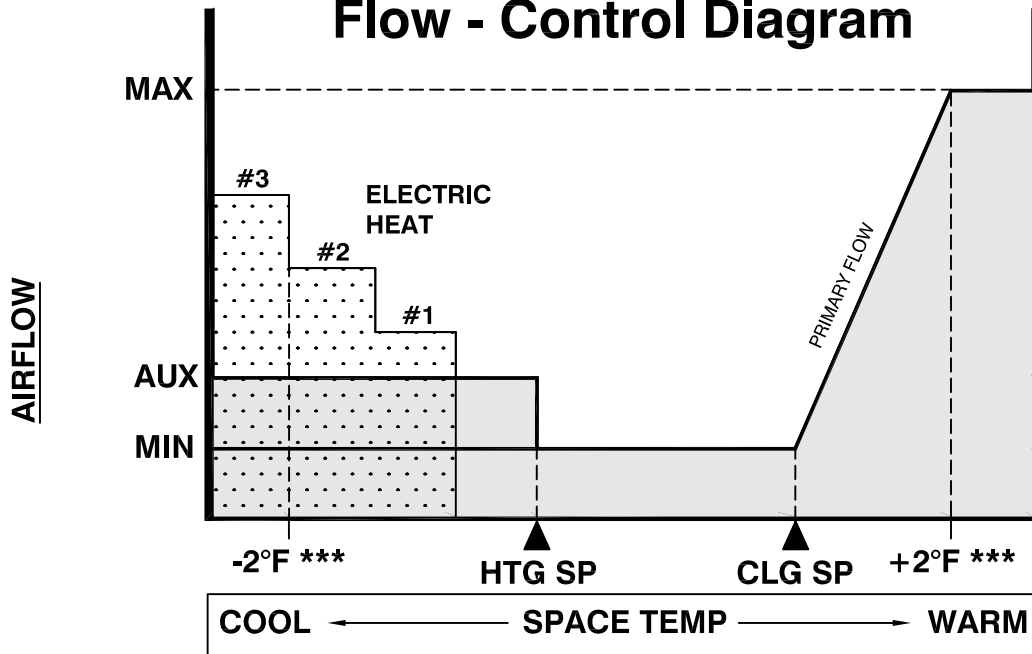
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DWG #: SD-A-5201.1
REV: A
DATE: 3-2-2017



- SINGLE DUCT
- ANALOG ELECTRONIC CONTROLS
- VAV COOLING
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Flow - Control Diagram



*** PROPORTIONAL BAND (PROP BD) DEFAULT AT 2°F, ADJUSTABLE FROM 1 to 10°F IN "ADVANCE" MENU ON THERMOSTAT

SEQUENCE OF OPERATION

1. THE THERMOSTAT SIGNALS THE CONTROLLER IN RESPONSE TO THE SPACE TEMPERATURE, WITH BOTH COOLING AND HEATING SETPOINT INCLUDED.
2. THE DAMPER MAINTAINS MINIMUM FLOW WHEN THE SPACE TEMPERATURE IS BETWEEN THE HEATING AND COOLING SETPOINT. AS THE SPACE TEMPERATURE INCREASES FROM THE COOLING SETPOINT TO 2°F ABOVE THE COOLING SETPOINT, THE DAMPER OPENS FROM MINIMUM AIRFLOW TO MAXIMUM AIRFLOW. THE DAMPER MAINTAINS MAXIMUM FLOW AT OVER 2°F ABOVE COOLING SETPOINT.
3. WHEN THE SPACE TEMPERATURE DROPS BELOW THE HEATING SETPOINT, THE AIRFLOW RATE IS INDEXED TO THE AUX AIRFLOW SETPOINT, AND THE FIRST STAGE OF REHEAT BEGINS. AS THE TEMPERATURE CONTINUES TO DROP, THE SECOND STAGE AND LATER THE THIRD STAGE BEGIN AS NEEDED (IF AVAILABLE).
4. AUX FLOW FUNCTIONS TO INCREASE AIR FLOW DURING HEATING, WHICH REDUCES THE DISCHARGE TEMP FOR IMPROVED THERMAL COMFORT.
5. MAXIMUM (AO1 MAX), MINIMUM (AO1 MIN), AND AUX AIRFLOW (AO1 AUX) ARE CONFIGURABLE IN "LIMITS" MENU ON THERMOSTAT.
6. LIMITS OF OUTPUT SIGNAL FOR CONTROLLING STEP HEAT (AO2 MAX & AO2 MIN) ARE CONFIGURABLE FROM 0 TO 12 VDC IN "LIMITS" MENU ON THERMOSTAT.
7. UPON LOSS OF POWER, DAMPER FAILS IN PLACE.

JOB NAME:
SUBMITTED BY:
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