



N507 BACnet DIGITAL THERMOSTAT 7-DAY PROGRAMMABLE SCHEDULE

VARIABLE AIR VOLUME, MODULATING COOLING WITH ON/OFF HEAT • 4-PIPE SYSTEM

Discharge Air Temperature

The Discharge Air Temperature sensor (DAT) provides the controller with the coil leaving air temperature (LAT). This is used to control the modulating valve to achieve a pre-set, but adjustable, discharge temperature. On cooling, this controls humidity.

SEQUENCE OF OPERATION:

Modulating Cooling

On a call for cooling, the chilled water valve will begin to modulate open. The valve will continue to open until the discharge air temperature reaches 52°F (11°C). Simultaneously, the fan will modulate from minimum airflow to maximum airflow to achieve room set point. Upon a decrease in cooling demand, the sequence will reverse.

Deadband

With no demand in the space, there will be no call for heating or cooling. The fan will be at a deadband set airflow. The chilled water valve and electric heat relay will also be off.

On/Off Heating

On a call for heating, the fan will ramp up to the maximum airflow setting and the hot water valve will open to achieve room set point. On a decrease in heating demand, the sequence will reverse.

Notes:

1. EZstat is factory programmed for the specific sequence of operation.
2. EZstat is also factory calibrated when airflow settings are provided for easy start-up.
3. Field commissioning (password protected):
 - a. Max. and Min. airflow settings are field adjustable between the ranges on the unit's ECM fan curve calibration chart.
 - b. Deadband differential and other parameters are also adjustable.
 - c. Refer to EZstat Application Guide/IOM.
4. Remote mounted 24 VAC thermostat is field wired (by others). Refer to application specific wiring diagram.
5. Thermostats baseplate mounts to a standard 2" (51) x 4" (102) vertical handy box.



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimension are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
9 - 23 - 14	FCS	NEW	FCS-N507