

CONTROL SCHEMATIC



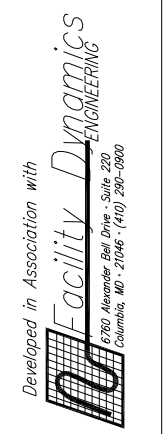
CONTROL LOGIC

NOTES  
1. Provide communications interface to the control system exposing all network available physical points and set points for diagnostic and monitoring purposes.

POINT NAME	POINT DESCRIPTOR	POINT TYPE				REMARKS
		DI	AI	DO	AO	
CRACx.ALARM	CRACx Alarm Status	1				
CRACx.LEAK	CRAC Leak Monitor	1				
CRACx.SAT	CRACx SA Temp		1			
TOTALS		2	1	0	0	

POINT	POINT DESCRIPTOR	POINT TYPE		UNITS
		READ	WRITE	
CRACx.T	Temperature	Y		degF
CRACx.H	Humidity	Y		%rh
CRACx.CLG	Cooling	Y		ON/OFF
CRACx.HTG	Heating	Y		ON/OFF
CRACx.HUM	Humidification	Y		ON/OFF
CRACx.DH	Dehumidification	Y		ON/OFF
CRACx.ECON-ST5	Econ-O-Cycle	Y		ON/OFF
CRACx.CAP	% Capacity	Y		%
CRACx.ST5	On/Off Status	Y		ON/OFF
CRACx.COMM-ALA	Loss of Comm	Y		ON/OFF
CRACx.LOC-OFF	Local Off	Y		ON/OFF
CRACx.REM-OFF	Remote Off	Y		ON/OFF
CRACx.A-F-ALA	Loss of Airflow	Y		ON/OFF
CRACx.LEAK	Liquid Detected	Y		ON/OFF
CRACx.FLTR-ST5	Change Filters	Y		ON/OFF
CRACx.T-ALA-HI	High Temperature	Y		ON/OFF
CRACx.T-ALA-LO	Low Temperature	Y		ON/OFF
CRACx.H-ALA-HI	High Humidity	Y		ON/OFF
CRACx.H-ALA-LO	Low Humidity	Y		ON/OFF
CRACx.HUM-ALA	Humidifier Problem	Y		ON/OFF
CRACx.HUM-PAN-ALA	No Water Hum Pan	Y		ON/OFF
CRACx.FAN-OV-ALA	Fan Overload	Y		ON/OFF
CRACx.OVER	Manual Override	Y		ON/OFF
CRACx.SMK-ALA	Smoke Detected	Y		ON/OFF
CRACx.PWR-ALA	Loss of Power	Y		ON/OFF
CRACx.LOCAL1-ALA	Local Alarm 1	Y		ON/OFF
CRACx.LOCAL2-ALA	Local Alarm 2	Y		ON/OFF
CRACx.FAN-RUNT	Fan Run Hours	Y		Hours
CRACx.HUM-RUNT	Humid Run Hours	Y		Hours
CRACx.T-SP	Temperature Setpoint	Y	Y	degF
CRACx.T-TOL	Temperature Tolerance	Y	Y	degF
CRACx.H-SP	Humidity Setpoint	Y	Y	%rh
CRACx.H-TOL	Humidity Tolerance	Y	Y	%rh
CRACx.T-ALA-H-SP	Hi Temp Alarm SP	Y	Y	degF
CRACx.T-ALA-L-SP	Lo Temp Alarm SP	Y	Y	degF
CRACx.H-ALA-H-SP	Hi Hum Alarm SP	Y	Y	%rh
CRACx.H-ALA-L-SP	Lo Hum Alarm SP	Y	Y	%rh
CRACx.C-DLY-SP	Restart Delay Setpoint	Y	Y	Hours
CRACx.C	On/Off Control	Y	Y	ON/OFF
CRACx.RHT-LOCK	Reheat Lockout		Y	ON/OFF
CRACx.HUM-LOCK	Humidifier Lockout		Y	ON/OFF

SEQUENCE OF OPERATION  
General: BAS shall monitor CRAC unit physical and network points for diagnostic purposes. All points shall be displayed at the OWS.



UNIVERSITY of VIRGINIA  
FACILITIES MANAGEMENT

HVAC CONTROLS STANDARDS

Eng	DMC
Drawn	DMC
Chkd	HJN
Appd	---
Issued	8/4/11
Job No.	10080
Scale	N/A
Proj Code	

STANDARD

COMPUTER ROOM AIR CONDITIONER

19 OF 30 SHEET NUMBER

C-2.8

DWG NUMBER