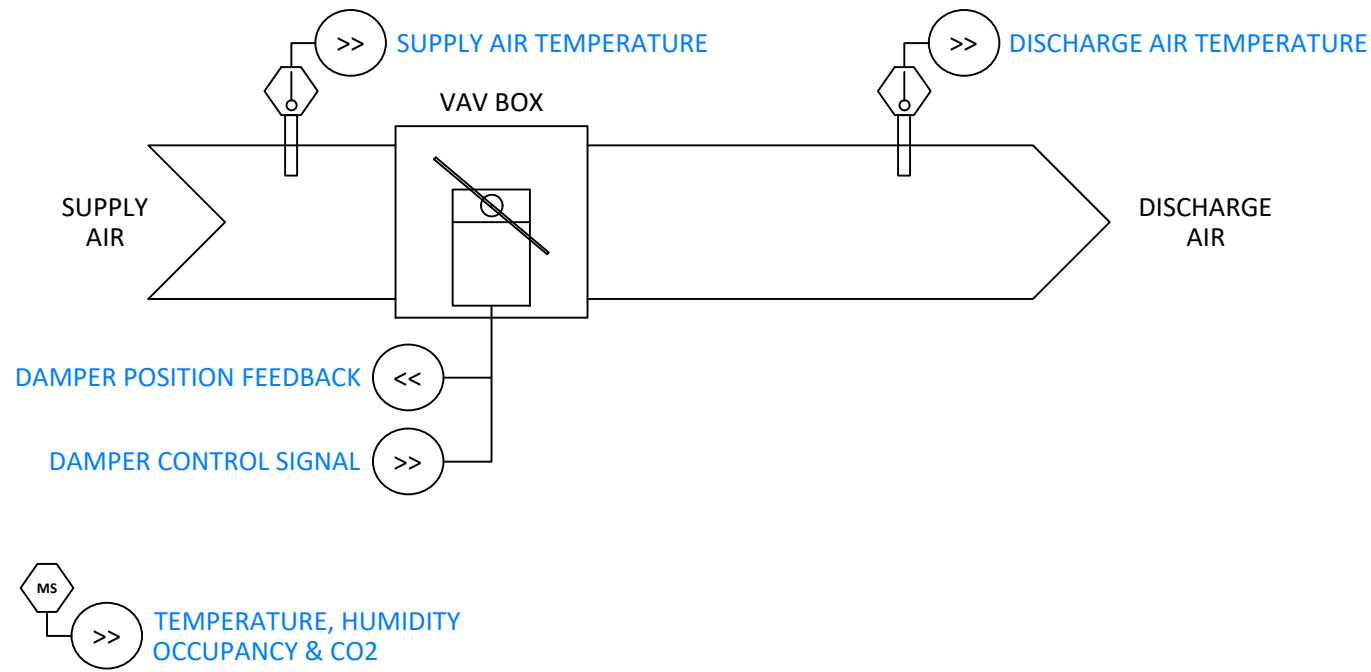


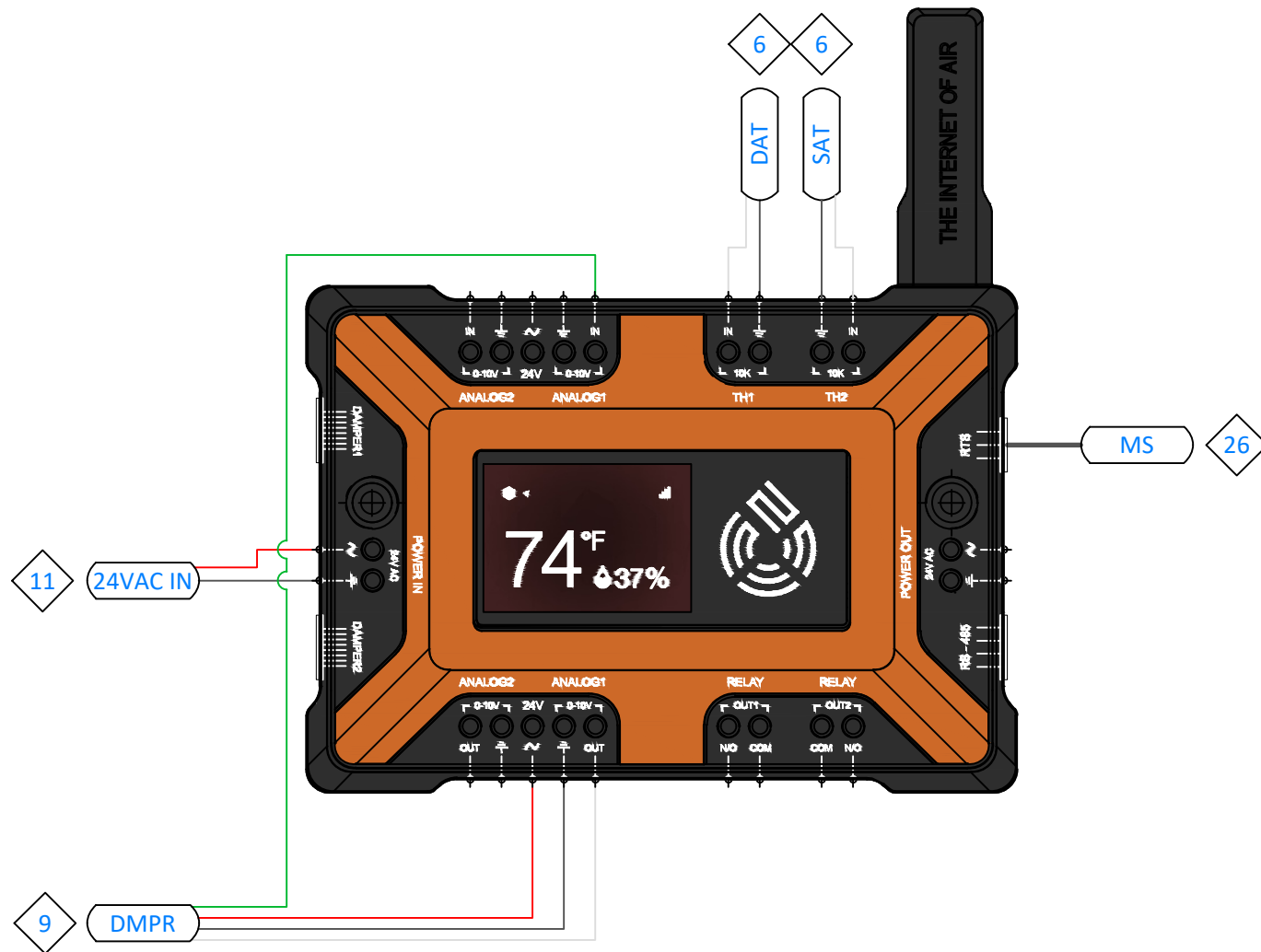
X.1 - LOGICAL DIAGRAM



X.2 - POINTS LIST

SMART NODE					
DESCRIPTION	POINT	TAG	DEVICE RANGE	MFG	PART #
DAMPER POSITION FEEDBACK	AI1	DMPR	0-10VDC FEEDBACK = 0-100% OPEN	75F	7X-AT-C6X-X
SPARE	AI2		0-10VDC		
DISCHARGE AIR TEMPERATURE	TH1	DAT	°F (10K TYPE II)	75F	3X-SE-C29X-X
ENTERING AIR TEMPERATURE	TH2	SAT	°F (10K TYPE II)	75F	3X-SE-C29X-X
DAMPER CONTROL SIGNAL	AO1	DMPR	0-10VDC SIGNAL = 0-100% OPEN	75F	7X-AT-C6X-X
SPARE	AO2		0-10VDC		
SPARE	RELAY 1		DRY CONTACT		
SPARE	RELAY 2		DRY CONTACT		
POWER IN	POWER IN	24VAC IN	24VAC (BY OTHERS)		
SPARE	POWER OUT		24VAC		
SPARE	DAMPER 1		NOT USED		
SPARE	DAMPER 2		NOT USED		
TEMP, HUMIDITY, OCC & CO2	RTS	MS	3-PIN CABLE (NO LOCAL INTERFACE)	75F	7X-SE-C72X-X
SPARE	RS-485		4-PIN CONNECTOR		

X.3 - PHYSICAL DIAGRAM



X.4 - SEQUENCE OF OPERATION

THE CONTROLLER MODULATES THE SUPPLY AIR DAMPER AND STAGES THE ELECTRIC REHEAT TO MAINTAIN THE ROOM TEMPERATURE AT SETPOINT ACCORDING TO ASHRAE GUIDELINE 36.

COOLING

WHEN THE SYSTEM IS COOLING AND THE ZONE ALSO REQUIRES COOLING, THE DAMPER WILL MODULATE FROM ITS MINIMUM POSITION WHEN THERE IS NO LOAD TO MAXIMUM POSITION WHEN THE LOAD IS 100%. REHEAT WILL NOT ENGAGE.

WHEN THE SYSTEM IS IN HEATING AND THE ZONE REQUIRES HEATING, THE DAMPER WILL MODULATE TO NEAR ITS MAXIMUM POSITION UNTIL THE ZONE IS SATISFIED. ONCE ANY ZONE REQUIRES COOLING, THE SYSTEM WILL STOP PROVIDING HEAT AND WILL SWITCH BACK INTO COOLING.

75F COMMISSIONING NOTES

- EACH OF THE ZONE CONTROLS SHOULD BE PAIRED AS A 'VAV REHEAT - NO FAN' ZONE PROFILE.
- DAMPER TYPE WILL BE SET TO '0-10VDC DAMPER' CONTROL.
- DAMPER SIZE AND SHAPE WILL BE DETERMINED BY THE INSTALLER.

Drawing Notes:

- ①
- ②
- ③



Project Name:
75F DESIGN MASTER
REV 1.4

Project Address:

DB: **CB:** **Page:** **of**

Drawing: VAV NO REHEAT WITH MULTISENSOR - SNV1