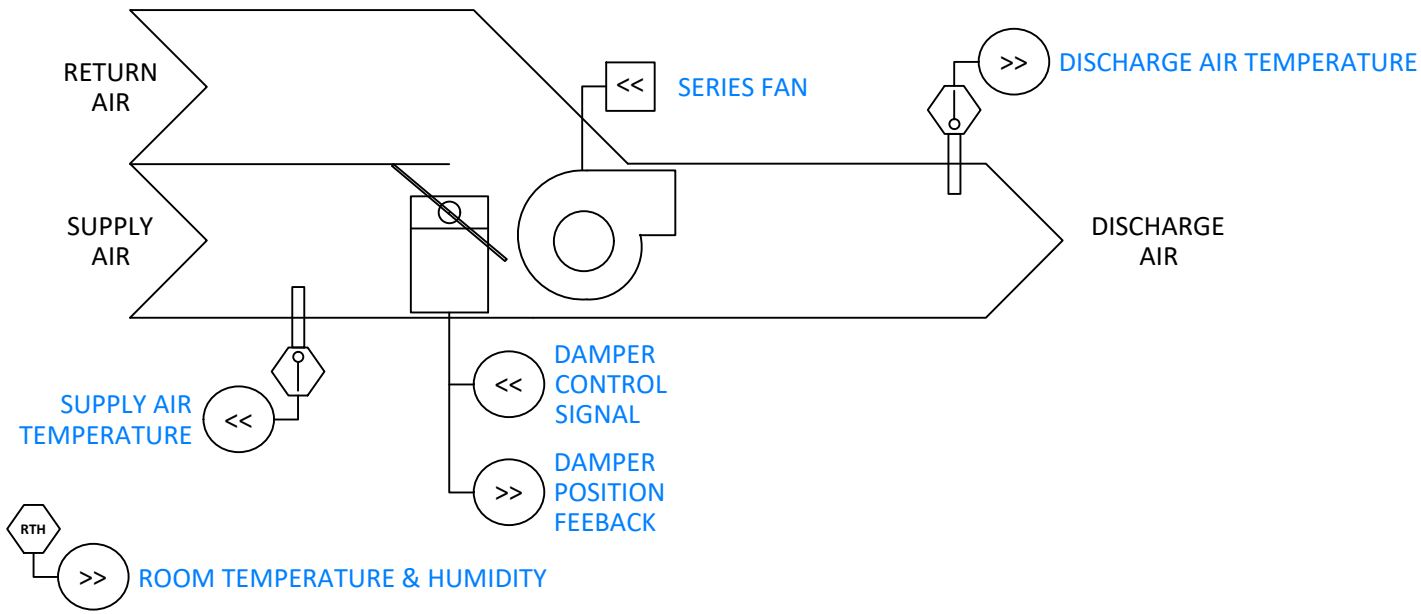


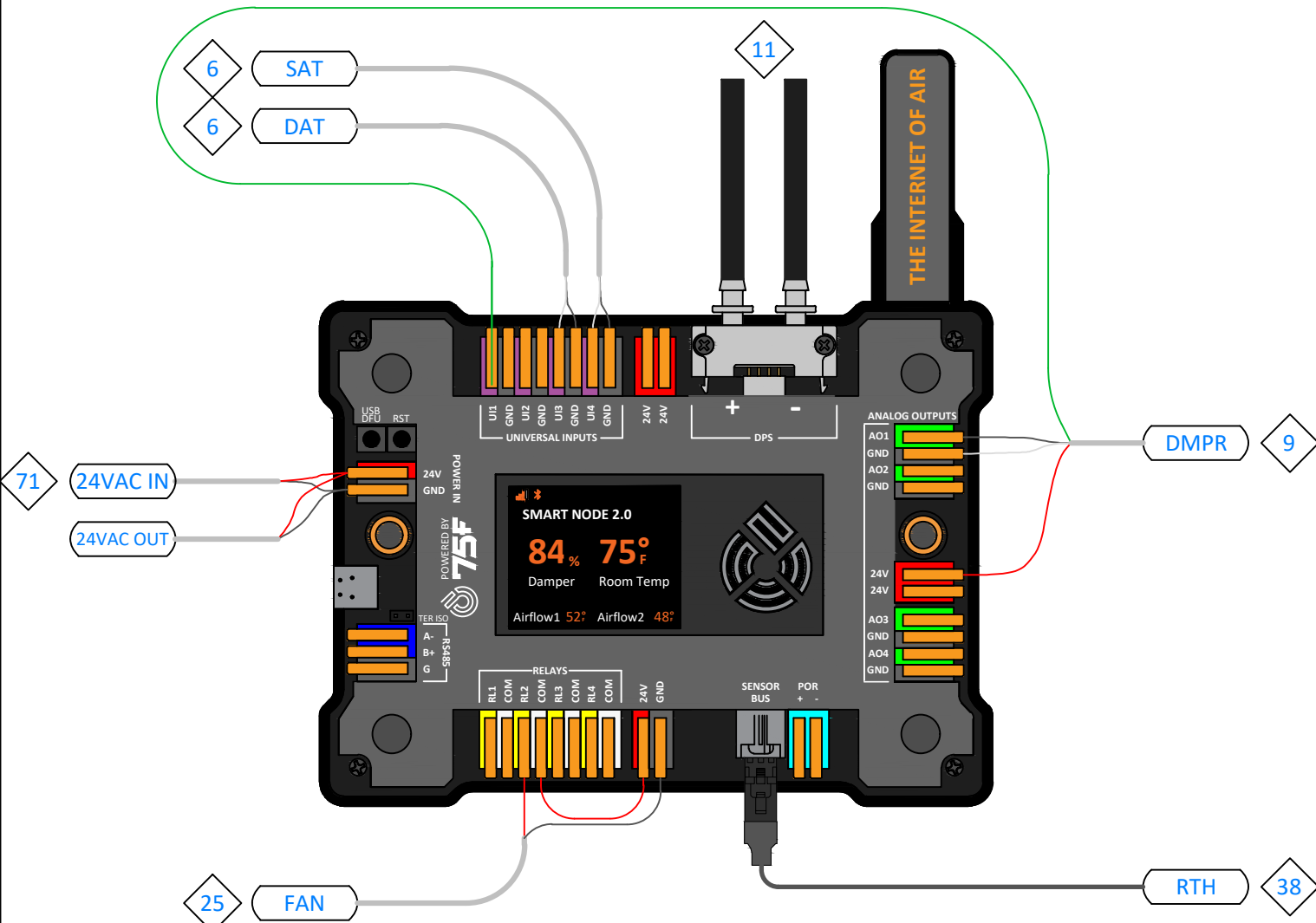
**X.1 - LOGICAL DIAGRAM**



**X.2 - POINTS LIST**

SMART NODE					
DESCRIPTION	POINT	TAG	DEVICE RANGE	MFG	PART #
DAMPER POSITION FEEDBACK	UI1	DMPR	0-10VDC FEEDBACK = 0-100% OPEN	75F	7X-AT-C6X-X
SPARE	UI2		DIGITAL / 10K TYPE II / 0-10VDC		
DISCHARGE AIR TEMPERATURE	UI3	DAT	°F (10K TYPE II)	75F	3X-SE-C29X-X
ENTERING AIR TEMPERATURE	UI4	SAT	°F (10K TYPE II)	75F	3X-SE-C29X-X
DAMPER CONTROL SIGNAL	AO1	DMPR	0-10VDC = 0-100% OPEN	75F	7X-AT-C6X-X
SPARE	AO2		0-10VDC / 4-20mA		
SPARE	AO3		0-10VDC / 4-20mA		
SPARE	AO4		0-10VDC / 4-20mA		
SPARE	RELAY 1		DRY CONTACT		
FAN ENABLE	RELAY 2	FAN	CC = ON	-	3X-RB-C3X-X
SPARE	RELAY 3		DRY CONTACT		
SPARE	RELAY 4		DRY CONTACT		
SPARE	POR		2-WIRE POR		
TEMPERATURE & HUMIDITY	SENSOR BUS	RTH	3-WIRE SENSOR BUS	75F	7X-SE-C43W-X
SPARE	RS-485		3-WIRE RS-485		
24VAC IN/OUT	POWER IN	24VAC IN	24VAC		

**X.3 - PHYSICAL DIAGRAM**



**X.4 - SEQUENCE OF OPERATION**

THE CONTROLLER MODULATES THE SUPPLY AIR DAMPER TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE FAN RUNS AT ALL TIMES DURING OCCUPANCY AND WHEN CONDITIONING IS REQUIRED.

**COOLING**

1. WHEN THE SYSTEM IS IN COOLING MODE AND THE ZONE REQUIRES COOLING, THE AIRFLOW SETPOINT WILL INCREASE FROM THE MINIMUM TO THE MAXIMUM COOLING AIRFLOW SETPOINT AS THE COOLING LOAD INCREASES. THE DAMPER MODULATES TO MAINTAIN THE AIRFLOW SETPOINT.

**HEATING**

1. 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 - SERIES FAN' ZONE PROFILE.
- CONFIGURE:
 

DAMPER TYPE: 0-10V	SIZE: DETERMINED BY INSTALLER	SHAPE: DETERMINED BY INSTALLER
REHEAT TYPE: NONE		ZONE PRIORITY: NORMAL
AUTO FORCE OCCUPIED: DISABLED (UNLESS REQUIRED)		AUTO AWAY: DISABLED (UNLESS REQUIRED)
ENABLE CFM CONTROL: ENABLED		K-FACTOR: DETERMINED BY INSTALLER
- SET ALL CFM SETPOINTS PER PROJECT SPECIFICATION

**Drawing Notes:**

- ①
- ②
- ③

	<b>Project Name:</b> 75F DESIGN MASTER REV. 1.4		
	<b>Project Address:</b>		
	<b>DB:</b>	<b>CB:</b>	<b>Page: of</b>
<b>Drawing:</b>		SERIES FPVAV (NO REHEAT) WITH RTH-SNV2	