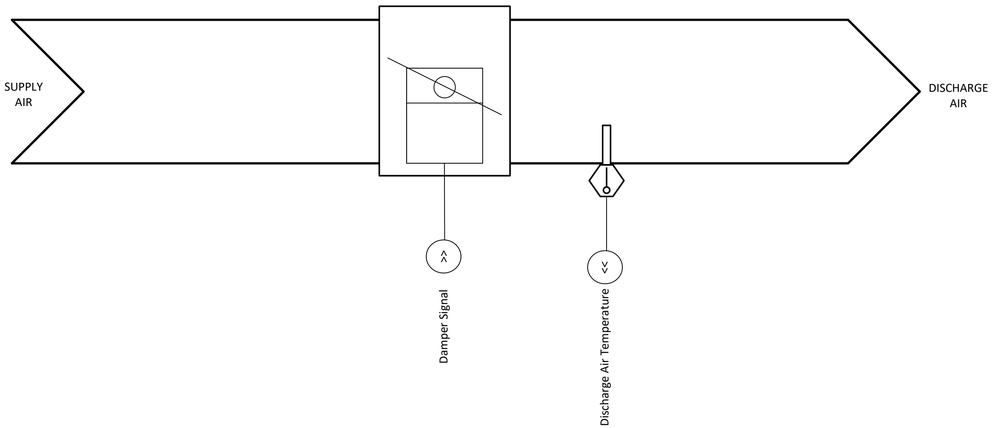
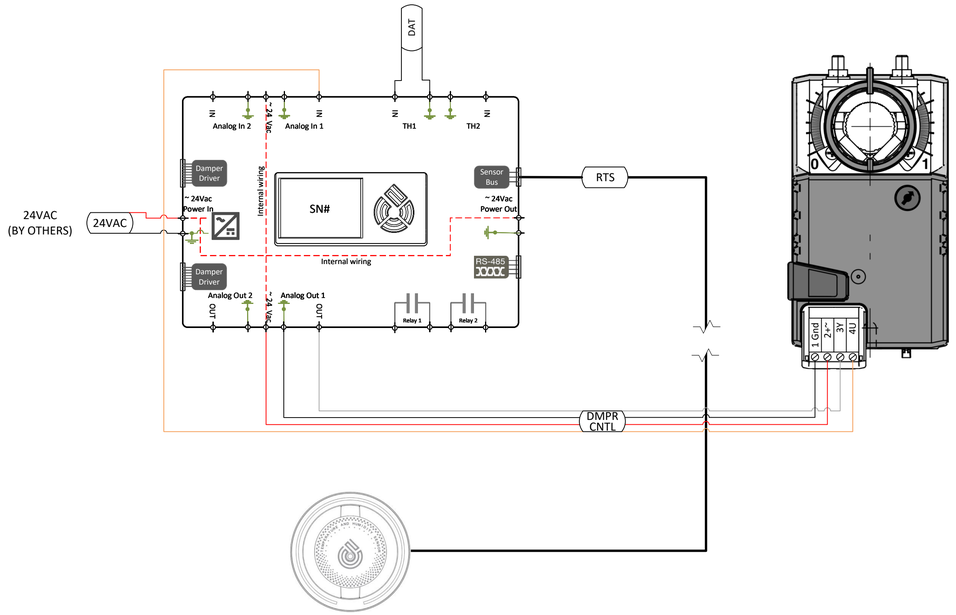
DAB ZONE CONTROL

Typical for ???



Smart Node						
Inputs/Outputs						
Point Description	**I/O Type**	**Controller**	**Wire Label**	**Comments**	**Device Model**	**Device Range**
Spare	AI1			0-10Vdc		
Spare	AI2			0-10Vdc		
Discharge Air Temparature	TH1	SN #	DAT	10k Type II or DI	S10013	°F
Spare	TH2			10k Type II or DI		
Damper Control Signal	AO1	SN #	DMPR CNTL	0-10Vdc	A10005	2-10VDC = 0-100%OPEN
Spare	AO2			0-10Vdc		
Spare	Relay 1			Dry contact		
Spare	Relay 2			Dry contact		
Power In	Power In	SN #	24VAC	24Vac	By Others	-
Power Out	Power Out			24Vac		
Other Ports						
Spare	Damper 1			Primary Smart Damper		
Spare	Damper 2			Secondary Smart Damper		
Space Temp. and Humidity Sensor (RTH)	Sensor Bus	SN #	RTS	3 pin cable connector (No local interface option)	2001	°F/RH%
Spare	RS485			4 pin cable connector (Local Interface option)		



<u>SEQUENCE</u>

THE ZONE DAMPERS WILL MODULATE TO REDIRECT THE AIRFLOW WHERE IT IS NEEDED. THE DAMPERS WILL NEVER DROP BELOW THEIR MINIMUM DAMPER VALUE (40% DEFAULT). THE AVERAGE OPENING OF ALL ZONE DAMPERS WILL BE 70% (ADJUSTABLE).

HEATING
- WHEN THE SYSTEM IS PROVIDING WARM AIR AND THE ZONE REQUIRES HEATING THEN THE DAMPER WILL MODULATE TOWARDS ITS MAXIMUM POSITION.
- WHEN THE SYSTEM IS PROVIDING WARM AIR AND THE ZONE IS SATISFIED THE DAMPER WILL REMAIN IN ITS LAST KNOWN POSITION.
- WHEN THE SYSTEM IS PROVIDING WARM AIR AND THE ZONE REQUIRES COOLING THEN THE DAMPER WILL MODULATE TOWARDS ITS MINIMUM POSITION.

COOLING
- WHEN THE SYSTEM IS PROVIDING COOL AIR AND THE ZONE REQUIRES COOLING THEN THE DAMPER WILL MODULATE TOWARDS ITS MAXIMUM POSITION.
- WHEN THE SYSTEM IS PROVIDING COOL AIR AND THE ZONE IS SATISFIED THE DAMPER WILL REMAIN IN ITS LAST KNOWN POSITION.
- WHEN THE SYSTEM IS PROVIDING COOL AIR AND THE ZONE REQUIRES HEATING THEN THE DAMPER WILL MODULATE TOWARDS ITS MINIMUM POSITION.

75F COMMISSIONING NOTES
- EACH OF THE ZONE CONTROLS SHOULD BE PAIRED AS A DYNAMIC AIRFLOW BALANCING (DAB) ZONE PROFILE.
- FIRST DAMPER TYPE WILL BE SET TO ‘2-10VDC DAMPER’ CONTROL.
- DAMPER SIZE AND SHAPE WILL BE DETERMINED BY INSTALLER.

PRELIMINARY

Notes:

75F

Project Name: <Project Name>

Jobsite Address: <Project Address> <Project Address>

Designer: <Designer Name>

Diagram Description: <Sheet Description>