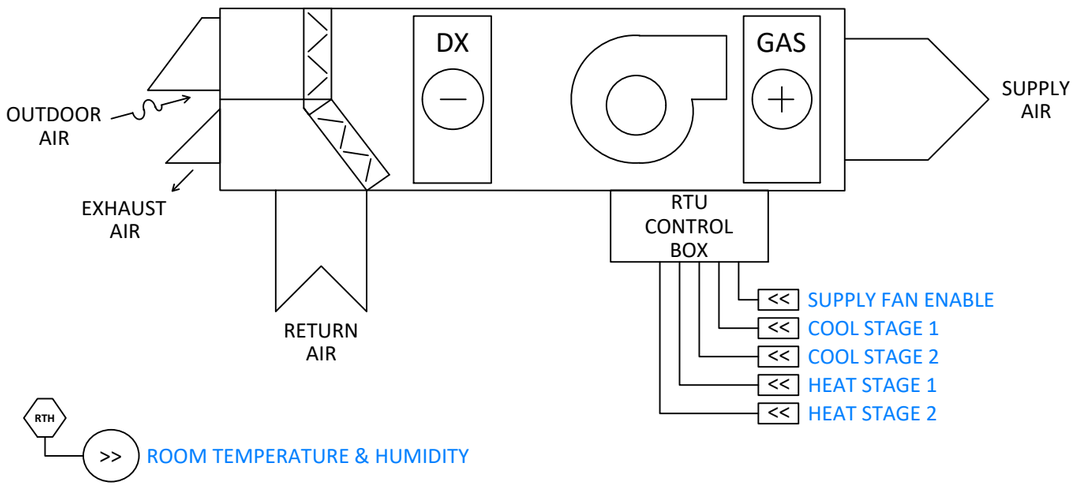
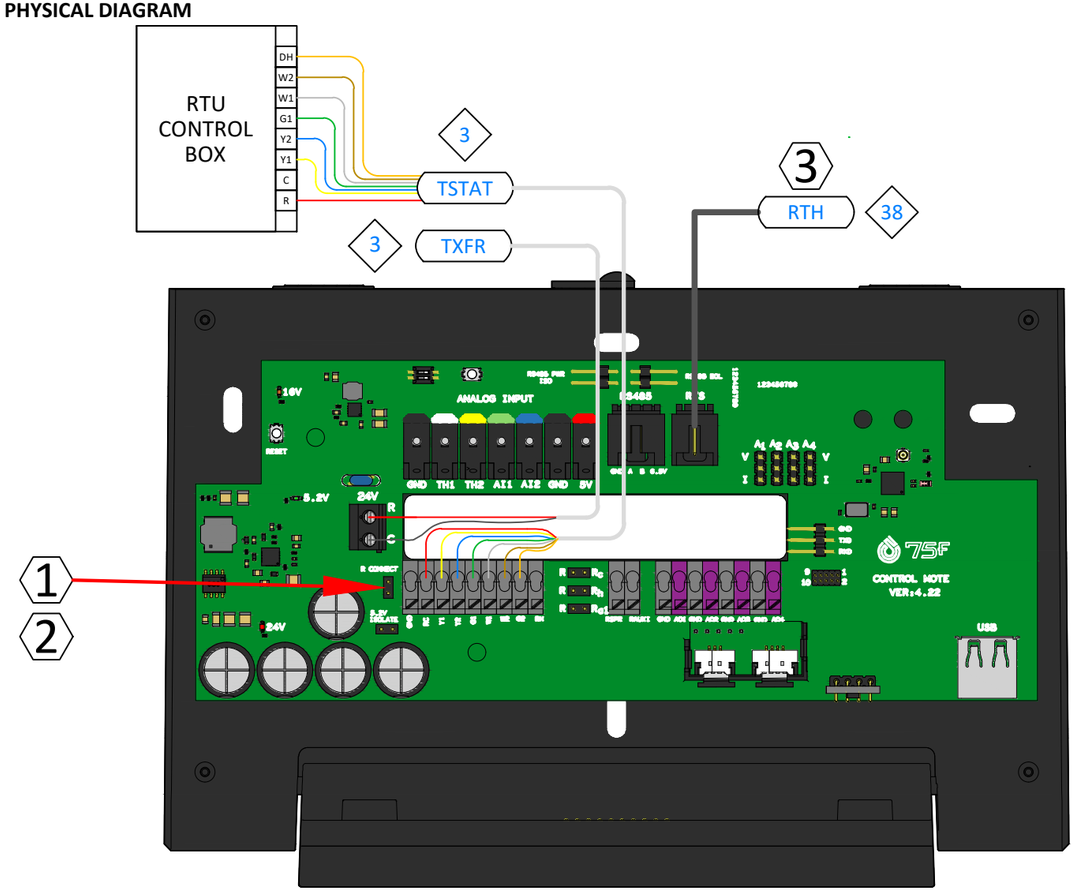
LOGICAL DIAGRAM



POINTS LIST

CENTRAL CONTROL UNIT (CCU)					
DESCRIPTION	**POINT**	**TAG**	**DEVICE RANGE**	**MFG**	**PART #**
SPARE	TH1		10K TYPE II OR DIGITAL		
SPARE	TH2		10K TYPE II OR DIGITAL		
SPARE	AI1		0-10VDC		
SPARE	AI2		0-10VDC		
COOL STAGE 1	BO1 (Y1)	TSTAT	CC = ENABLE	-	(TO UNIT)
COOL STAGE 2	BO2 (Y2)	TSTAT	CC = ENABLE	-	(TO UNIT)
SUPPLY FAN ENABLE	BO3 (G)	TSTAT	CC = ENABLE	-	(TO UNIT)
HEAT STAGE 1	BO4 (W1)	TSTAT	CC = ENABLE	-	(TO UNIT)
HEAT STAGE 2	BO5 (W2)	TSTAT	CC = ENABLE	-	(TO UNIT)
DEHUMIDIFIER	BO6 (O/B)	TSTAT	CC = ENABLE	-	(TO UNIT)
SPARE	AO1		0-10VDC		
SPARE	AO2		0-10VDC		
SPARE	AO3		0-10VDC		
SPARE	AO4		0-10VDC		
POWER IN	R	TXFR	24VAC	75F	3X-PS-C7X-X
ROOM TEMPERATURE & HUMIDITY	RTS	RTH	3-PIN CABLE (NO LOCAL INTERFACE)	75F	7X-SE-C42K-X
SPARE	RS485		4-PIN CONNECTOR		

PHYSICAL DIAGRAM



SEQUENCE OF OPERATION

THE RTUs WILL USE THE DIFFERENCE BETWEEN THE WEIGHTED AVERAGE CURRENT TEMPERATURE AND THE AVERAGE DESIRED TEMPERATURE FOR LOAD CALCULATIONS.

HEATING/ COOLING

1. WHEN OCCUPANCY BEGINS, THE UNIT WILL START THE SUPPLY FAN.
2. AS DEMAND FOR COOLING INCREASES, THE COOLING WILL STAGE UP. GENERALLY WHEN THE DELTA T IS 2°F, BOTH STAGES OF COOLING WILL BE RUNNING.
3. AS DEMAND FOR HEATING INCREASES, THE HEATING WILL STAGE UP. GENERALLY WHEN THE DELTA T IS 2°F, BOTH STAGES OF HEATING WILL BE RUNNING.

ECONOMIZING

4. THE ECONOMIZER (IF PRESENT) SHALL BE BY THE UNIT's INTERNAL CONTROLS.

HUMIDITY CONTROL

5. WHEN THE SPACE HUMIDITY IS ABOVE THE TARGET HUMIDITY LEVEL BY 1% (ADJ), THE DEHUMIDIFIER WILL BE ENABLED.
6. WHEN THE HUMIDITY IS 5% BELOW THE TARGET HUMIDITY LEVEL, THE DEHUMIDIFIER WILL BE DISABLED.
7. CONTACT 75F SUPPORT FOR ADJUSTMENT OF THE TARGET HUMIDITY LEVEL.

75F COMMISSIONING NOTES:

- SYSTEM PROFILE WILL BE SET TO "DAB STAGED RTU".
- ENABLE: RELAY 1 (Y1), RELAY 2 (Y2), RELAY 3 (G1), RELAY 4 (W1), AND RELAY 5 (W2)
- CONFIGURE RELAYS AS FOLLOWS:
  - RELAY 1 = COOLING STAGE 1
  - RELAY 2 = COOLING STAGE 2
  - RELAY 3 = FAN STAGE 1
  - RELAY 4 = HEATING STAGE 1
  - RELAY 5 = HEATING STAGE 2

Drawing Notes:

1. WHEN USING ISOLATED POWER SUPPLY, REMOVE R CONNECT JUMPER. FAILURE TO DO REMOVE WILL VOID WARRANTY.
2. WHEN USING ISOLATED POWER SUPPLY, DO NOT LAND 24V COMMON FROM RTU T-STAT WIRE
3. WALL SENSOR MUST BE INSTALLED IN A LOCATION MOST REPRESENTATIVE THE AVERAGE SPACE CONDITIONS

75F

Project Name: 75F DESIGN MASTER REV. 1.4

Project Address:

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

Drawing: DAB STAGED RTU WITH RTH