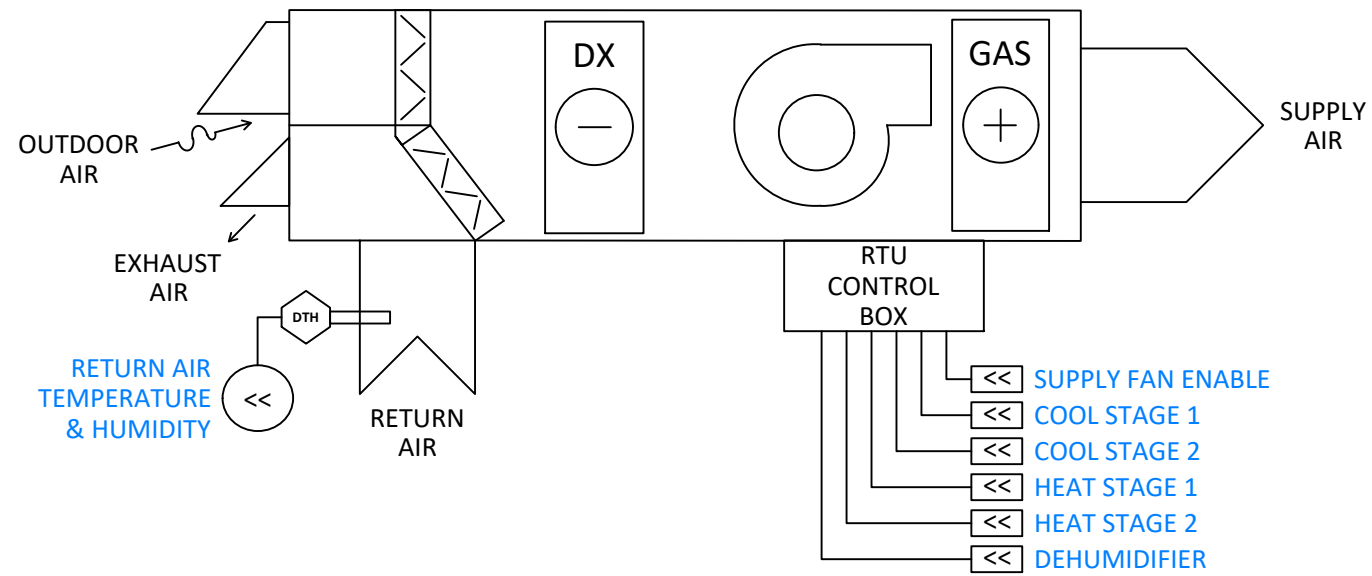


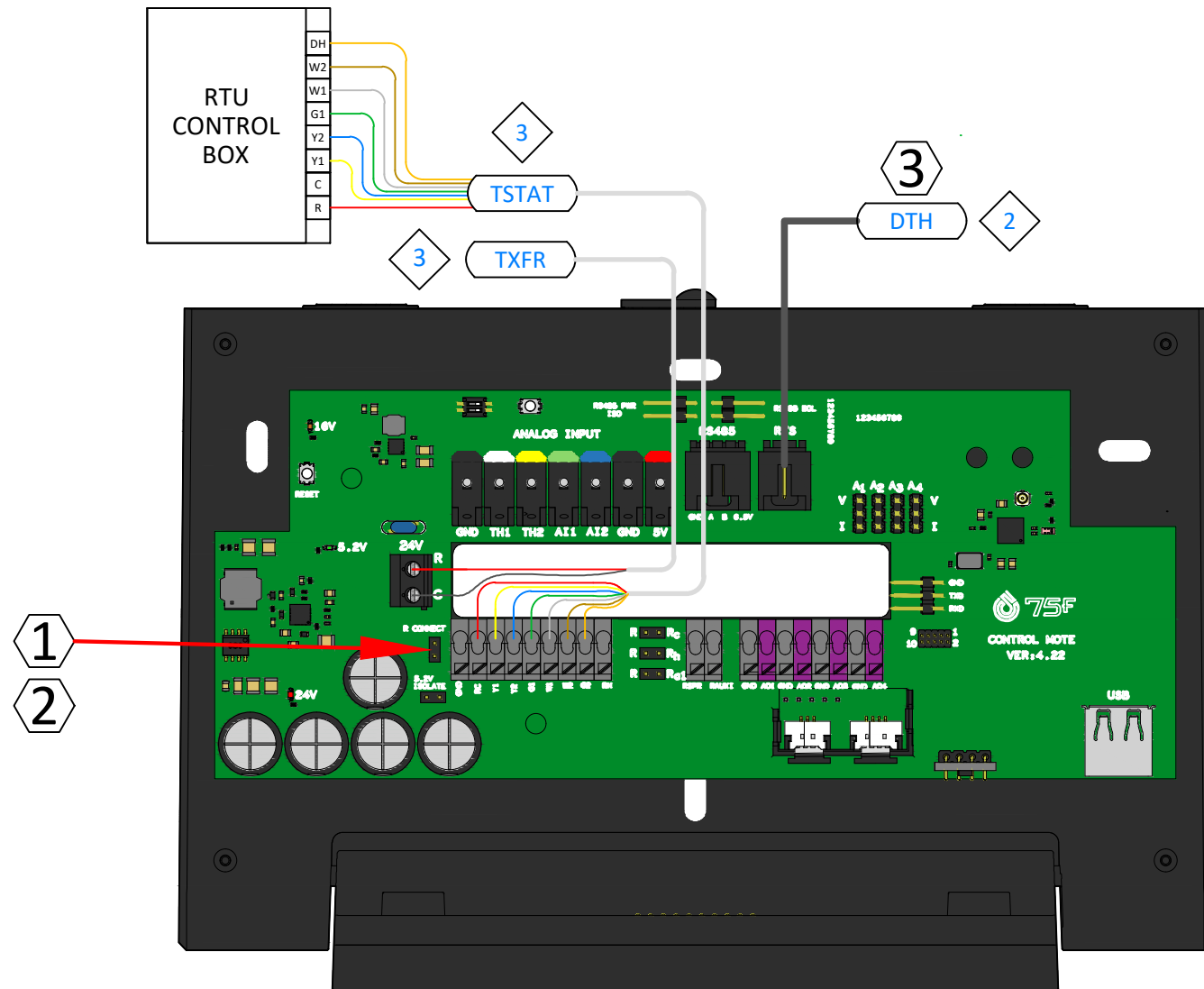
**LOGICAL DIAGRAM**



**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
RETURN AIR TEMP & HUMIDITY	RTS	DTH	3-PIN CABLE (NO LOCAL INTERFACE)	75F	7X-SE-C16X-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), AND RELAY 6 (G2)
- 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
  - RELAY 6 = DEHUMIDIFIER

**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

	<b>Project Name:</b> 75F DESIGN MASTER REV. 1.4		
	<b>Project Address:</b>		
	<b>DB:</b>	<b>CB:</b>	<b>Page:</b> of
<b>Drawing:</b>		DAB STAGED RTU WITH DTH AND HGRH	