Checklist DIP-Switch Setting SYSVRF2 AHU BOX

Project:	Date:

Temperature sensors:

The sensors only have to be connected to the Master Box

T1: inlet air temperature sensor

T2A: evaporator inlet temperature sensor

T2: evaporator intermediate temperature sensor

T2B: evaporator outlet sensor TA: outlet air temperature sensor

External Signals:

The contacts "WATER", "ON/OFF switch" and "Fan status" must be closed or manually bridged

To controll the AHU Box with external Signals following Signals are required:

"Cool mode" + "0-10V input" or

"heat mode" + "0-10V input"

Master

ENC₂

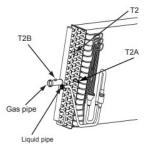
LOW

ENC3

MIDDLE

ENC4

HIGH



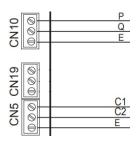
CN23	000		
Ì		WATER)	
9	0		:
CN9		ON/OFF	ON/OFF switch ≥ _
CN32		COOL	Cool mode Cool mode Heat mode Fan status
5	0	HEAT	Heat mode T 2 2
$\overline{\mathbf{c}}$		FAN	Fan status
CN61		COM	F o
ž	0	Vo+	
O	ĕ	Vo-	0-10V output
N		Vi+	
CN62	9	Vi-	0-10V input
ਹ			

SW1	SW2	SW3	SW4	ENC1	SW9	SW10
Slave1	SW2	SW3	SW4	ENC1	SW9	SW10
Slave2	SW2	SW3	SW4	ENC1	SW9	SW10
Salve3 SW1	SW2	SW3	SW4	ENC1	SW9	SW10

Master/Slave

Only the Master Box must be connected to the P/Q/ E bus.

The slave boxes must be wired in series with the master box via C1/C2/E



1) Definitions of each bit of SW1:

Valid for the

ON 1234 Valid for the

aster unit only

Valid for the naster unit only

ON 1234 Valid for the

naster unit only

aster unit only

SW1-1 is 0: shutdown compensation ON 1234 Valid for the master unit only temperature (cooling) is 0°C (factory default)

SW1-1 is 1: shutdown compensation temperature (cooling) is 2°C (outlet air temperature control is invalid)

SW1-2 is 0: AHU control box provides three fan speeds (factory default) SW1-2 is 1: only one fan speed

SW1-3 and SW1-4 are 00: the number of slave AHU control boxes connected in parallel is 0 (factory default); valid for the master unit

SW1-3 and SW1-4 are 01: the number of slave AHU control boxes connected in parallel is 1

ON 1234 Valid for the master unit only SW1-3 and SW1-4 are 10: the number of slave AHU control boxes connected in parallel is 2

> SW1-3 and SW1-4 are 11: the number of slave AHU control boxes connected in parallel is 3

2) Definitions of each bit of SW2:

ON	SW2-1 is 0: automatic addressing (factory default)
1234	SW2-1 is 1: clearing AHU control box address
ON 1234	SW2-2 is 0: no self-check (factory default) SW2-2 is 1: self-check
ON	SW2-3 and SW2-4 are 00: master
1234	AHU control box(factory default)
ON	SW2-3 and SW2-4 are 01: slave
1234	AHU control box 1
ON	SW2-3 and SW2-4 are 10: slave
1234	AHU control box 2
14.75.1.7	

SW2-3 and SW2-4 are 11: slave

AHU control box 3

3) Definitions of each bit of SW3:

	Return Air Temperature Control (SW4-1 is 0)	Outlet Air Temperature Control (SW4-1 is 1)
ON 1234 Valid for the master unit only	SW3-1 and SW3-2 are 00: anti-cold air temperature value in heating mode is 15°C (factory default)	SW3-1 and SW3-2 are 00: anti-cold air temperature value in heating mode is 14°C
1234 Valid for the master unit only	SW3-1 and SW3-2 are 01: anti-cold air temperature value in heating mode is 20°C	SW3-1 and SW3-2 are 01: anti-cold air temperature value in heating mode is 12°C
1234 Valid for the master unit only	SW3-1 and SW3-2 are 10: anti-cold air temperature value in heating mode is 24°C	SW3-1 and SW3-2 are 10: anti-cold air temperature value in heating mode is 16°C
1234 Valid for the master unit only	SW3-1 and SW3-2 are 11: anti-cold air temperature value in heating mode is 26°C	SW3-1 and SW3-2 are 11: anti-cold air temperature value in heating mode is 18°C
1234 Valid for the master unit only	SW3-3 and SW3-4 are 00: temperature compensation in heating mode is 6°C (factory default)	SW3-3 and SW3-4 are 00: Outlet air temperature control is invalid
ON 1234 Valid for the master unit only	SW3-3 and SW3-4 are 01: temperature compensation in heating mode is 2°C	SW3-3 and SW3-4 are 01: Outlet air temperature control is invalid
ON 1234 Valid for the master unit only	SW3-3 and SW3-4 are 10: temperature compensation in heating mode is 4°C	SW3-3 and SW3-4 are 10: Outlet air temperature control is invalid
1234 Valid for the master unit only	SW3-3 and SW3-4 are 11: temperature compensation in heating mode is 0°C(Follow Me function)	SW3-3 and SW3-4 are 11: No temperature compensation for outlet air temperature control by default

ON 1234

5) D

Definitions of e	each bit of SW9:	6) Definitions of e	each bit of SW10:
Valid for the	SW9-1 is 0: 2-digit digital display panel (factory default) SW9-2 is 1: 3-digit digital display panel	ON II 12	00: AHU BOX 22-90 model
	SW9-2 is 0: One or more AHU control boxes are connected in parallel to one AHU; one coil is connected to multiple		01: AHU BOX 90-200 model
ON H	control boxes; (shielding faults from the slave unit's temperature sensors T1, T2, T2A, TA and T2B) (factory default)		10: AHU BOX 200-360 model
Valid for the naster unit only	SW9-2 is 1: Multiple AHU control boxes are connected in parallel. In the event of multiple coils, one coil is connected to one control box; (shielding faults from the slave unit's temperature sensor T1,TA)	12	11: AHU BOX 360-560 model
ON Walid for the	SW9-3 is 0: no swing control (factory default) SW9-3 is 1: swing control		

0-10V output Voltage

ENC2 (2V Factory Default)					ENC3 (7V Factory Default)				(10V Factory Default)							
Fan out	Fan output voltage of Low speed			Fa	n outpu	it volta	ge of M	liddle s	peed	Fan	output	voltag	e of Hig	gh spee	ed	
Dial code	0	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
Voltage(V) 1	1	2	3	4	5	6	7	8	9	10	10	10	10	10	10

Note: ENC2<ENC3<ENC4. If not satisfied, fault H9 is reported.

4) Definitions of each bit of SW4:

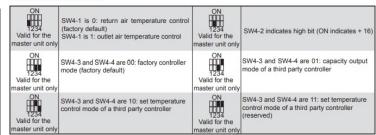


Table 4-1 Capacities of SW4-2 and ENC1

SW4-2 ON 1234	ENC1	Capacity (hp)	Capacity (KW)	
	0	0.8 hp	2.2	
	1	1.0 hp	2.8	
	2	1.2 hp	3.6	
	3	1.7 hp	4.5	BOX 22-90
	4	2.0 hp	5.6	
	5	2.5 hp	7.1	
	6	3.0 hp	8.0	
0	7	3.2 hp	9.0	
0	8	3.6 hp	10.0	
	9	4.0 hp	11.2	
	Α	4.5 hp	12.0	BOX 90-200
	В	5.0 hp	14.0	
	С	6.0 hp	16.0	
	D	6.5hp	18.0	
	E	7.0hp	20.0	
	F	8.0 hp	22.4	BOX 200-360
	0	10.0 hp	28.0	
	1	12.0 hp	33.5	
1	2	14.0 hp	40.0	
	3	16.0 hp	45.0	BOX 360-560
	4	20.0 hp	56.0	