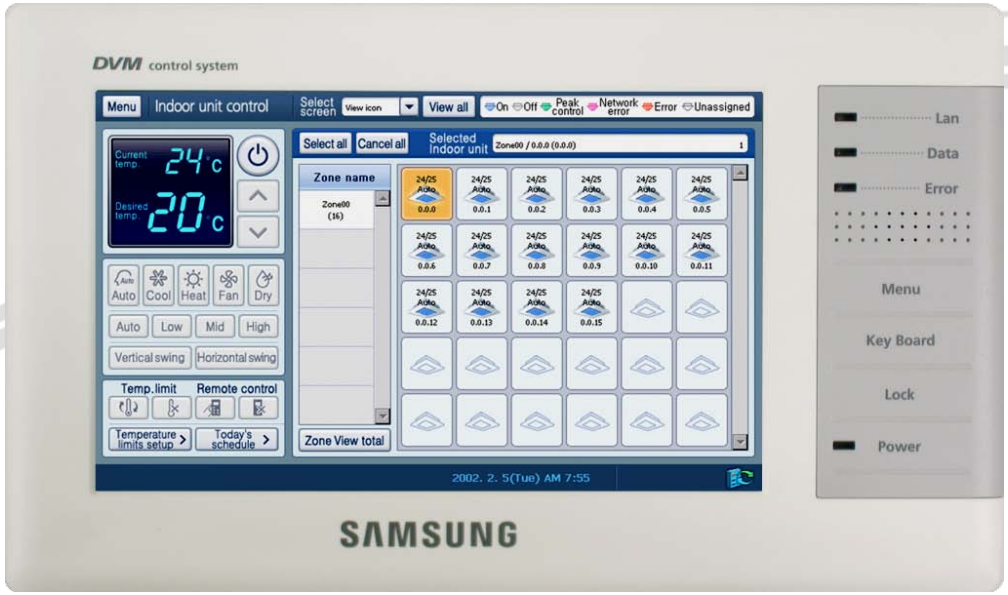
Touch panel controller



MST-S3W

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

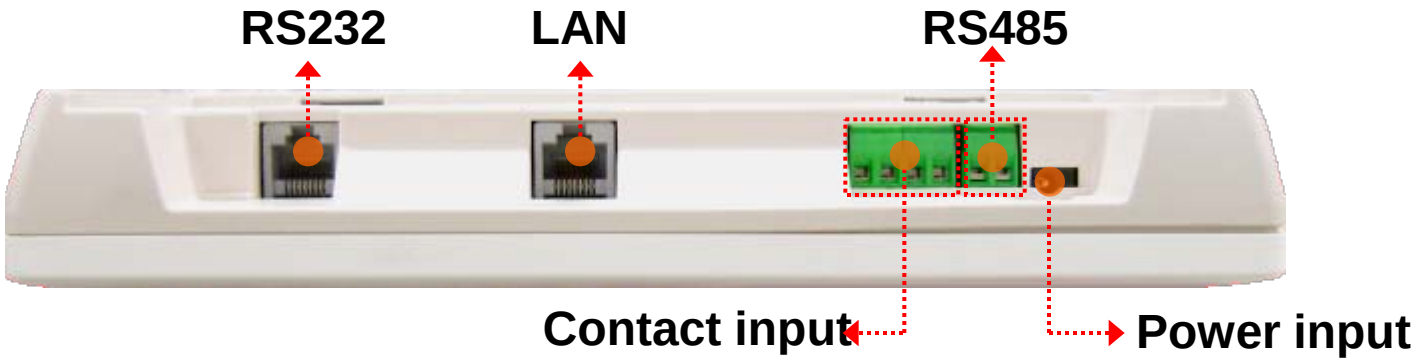
- **MST-S3W**

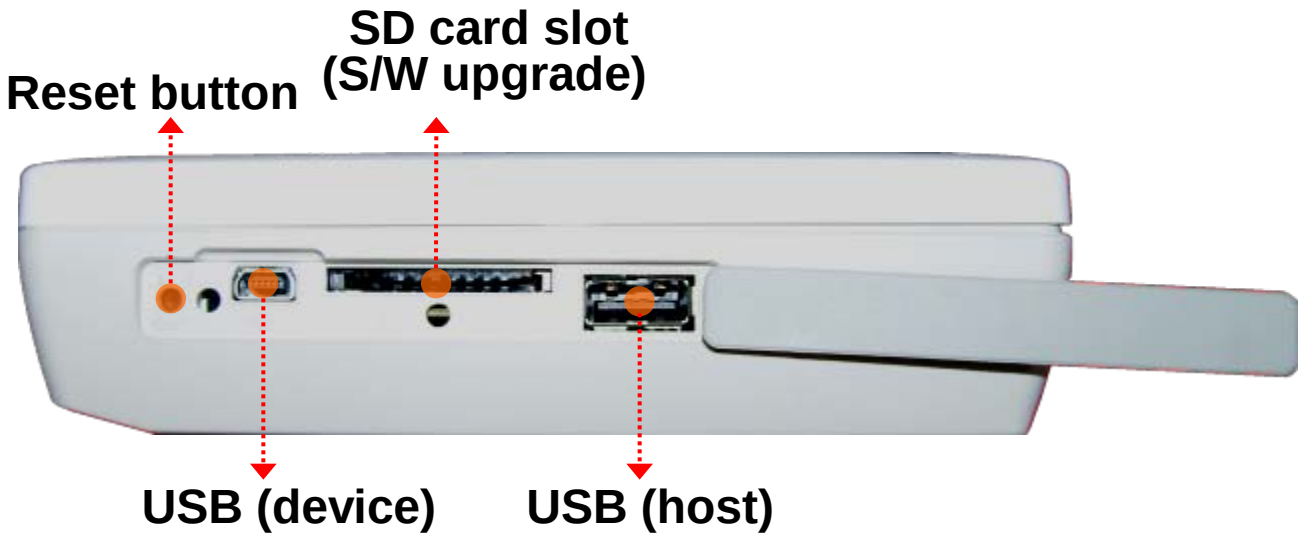
- **LAN connection**
- **Data transfer**
- **Error indication**
- **Speaker**
- **Menu button**
- **Software keyboard**
- **Lock button**
- **Power/LCD ON/OFF button**

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

- MST-S3W

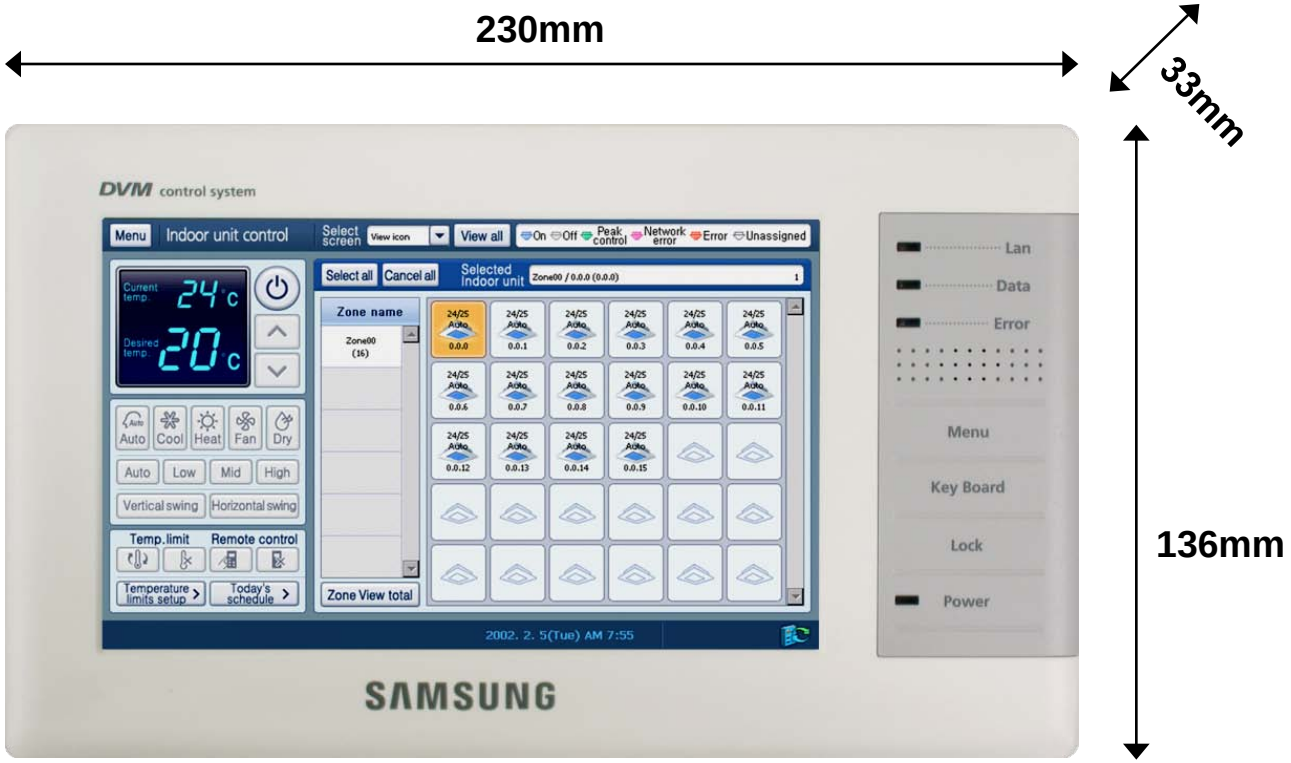




Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

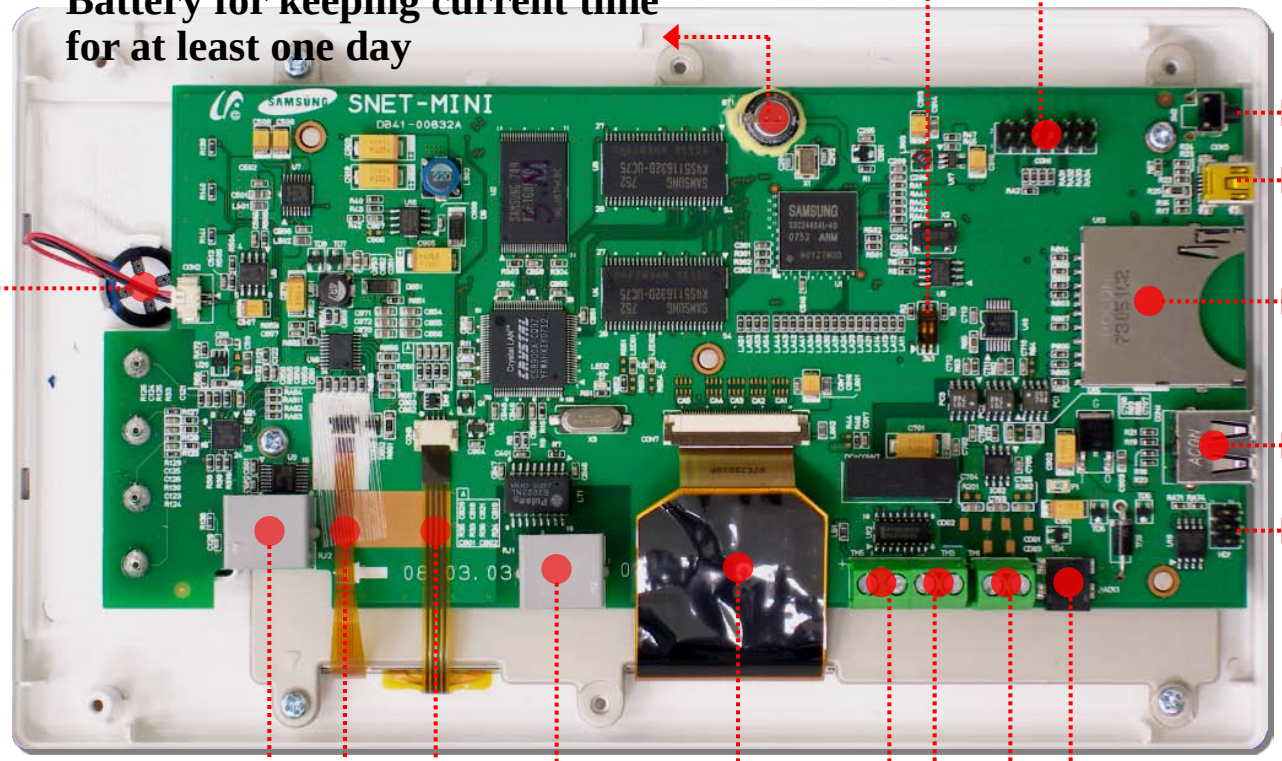
- Dimensions



Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

- PCB description



Battery for keeping current time for at least one day

6 Option switch
7 Bootloader
8 Reset button
9 IEEE 1394
Speaker
10 OS, S/W update (SD-type)
11 USB interface
12 Software upgrade

1 RS232 (debugging)
2 LCD Backlight
3 Touch panel
4 LAN
5 RGB data (LCD display)
13 Power input (12VDC,3A)
14 RS485 communication
15 Contact input2
16 Contact input1

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

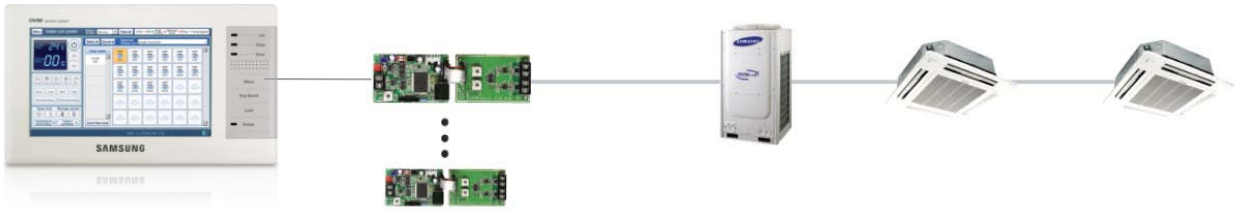
No	Name	Description
1	RS232 (Debugging)	RS232 interface for system configuration, data management and software debugging (Field-oriented)
2	LCD Backlight	LCD backlight connector
3	Touch screen interface	Touch panel signal interface
4	LAN connector	LAN connection to DMS
5	RGB data	7-inch color LCD display connector
6	Option switch	Control specification setting for external inputs
7	Bootload connector	For OS bootloading
8	Reset button	System reset
9	1394 interface	IEEE 1394 interface
10	Flash memory card	SD-type flash memory interface for data back-up
11	USB interface	USB interface for a key board or memory stick
12	Software upgrade connector	For software upgrade of system debugging engine
13	Power supply connector	12VDC, 3A
14	RS485 connector	RS485 connection to centralized controllers or interface modules. It has polarity which causes error in communication with lower-layer devices if reverse-polarized connection is made.
15	External input2	Mechanical contact input2 (Load : 12VDC/5mA)
16	External input1	Mechanical contact input1 (Load : 12VDC/5mA)

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

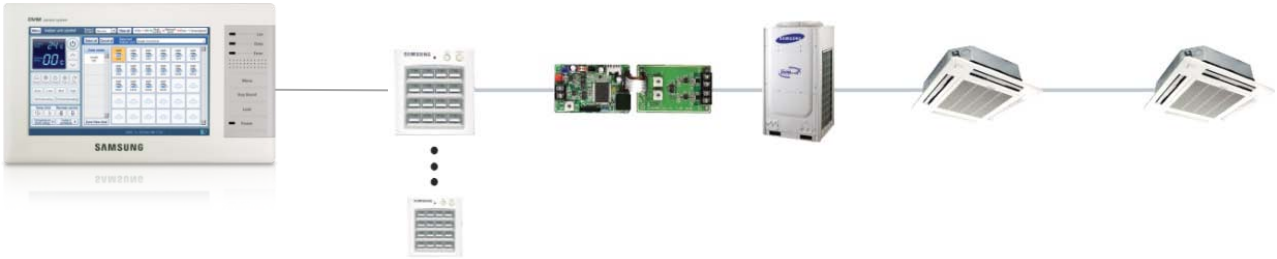
- Connection diagram

▪ Connection to interface module



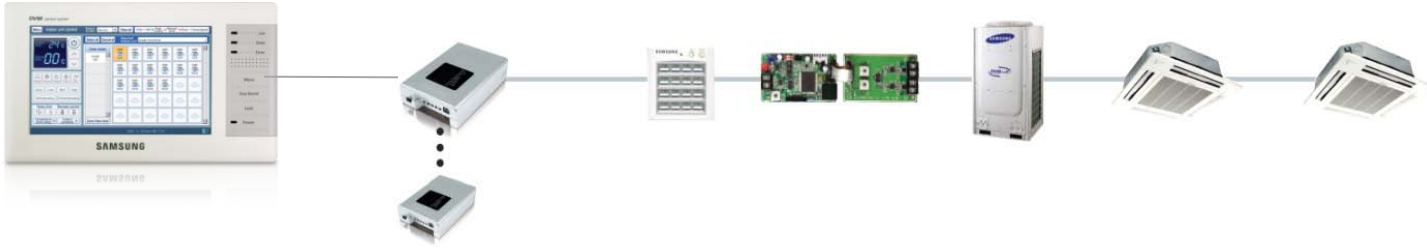
Supports 16 Interface Modules

▪ Connection to on/off controller



Supports 16 Centrallzed Controllers

▪ Connection to DMS



Supports 4 DMSs

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

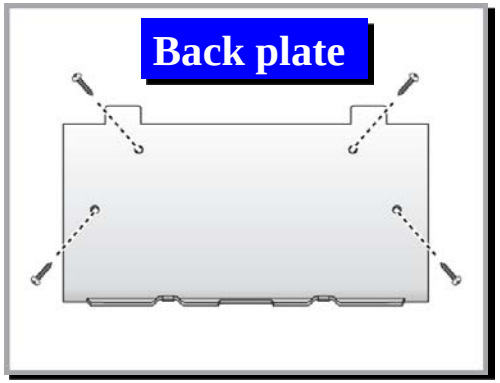
- Interface

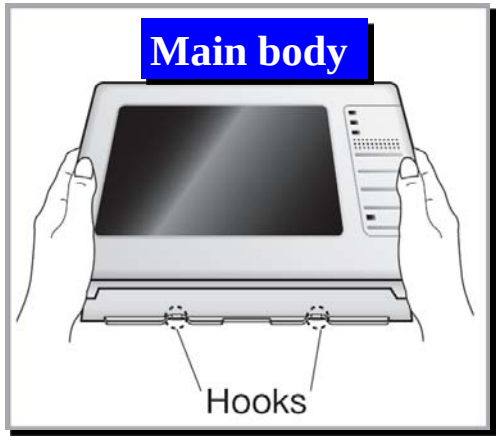
Lower device	Model name	S-NET mini Tracking mode	Note
 DMS	MIM-D00	**Group mode** **Room mode**	- Max. 4 DMSs to control 256 indoor units - Control with indoor unit MAIN/RMC address
 Centralized controller	MCM-A202 MCM-A202A MCM-A202B	**Room mode only**	- Max. 16 centralized controllers - Control with indoor unit MAIN address only
 Interface module	MIM-B04A MIM-B13 MIM-B13A MIM-B13B	**Room mode only**	- Max 16 interface modules - Control with indoor unit MAIN address only

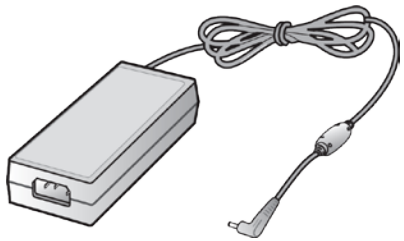
Touch panel controller – MST-S3W

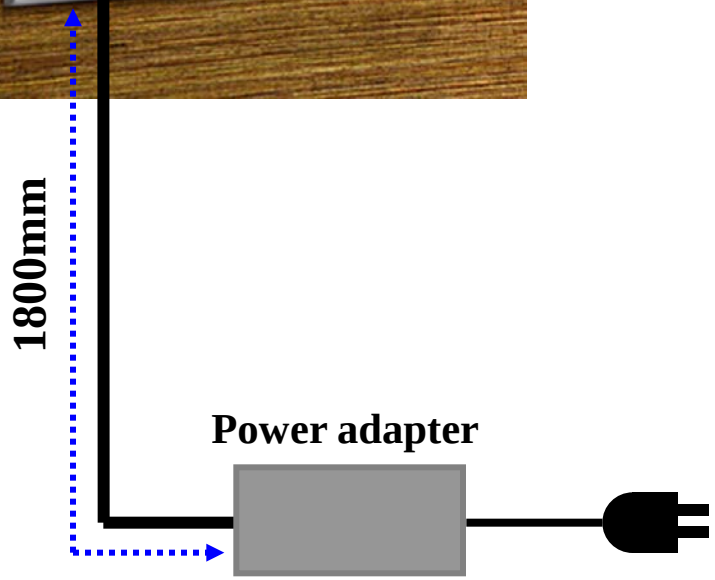
SAMSUNG ELECTRONICS CO.LTD

- Installation



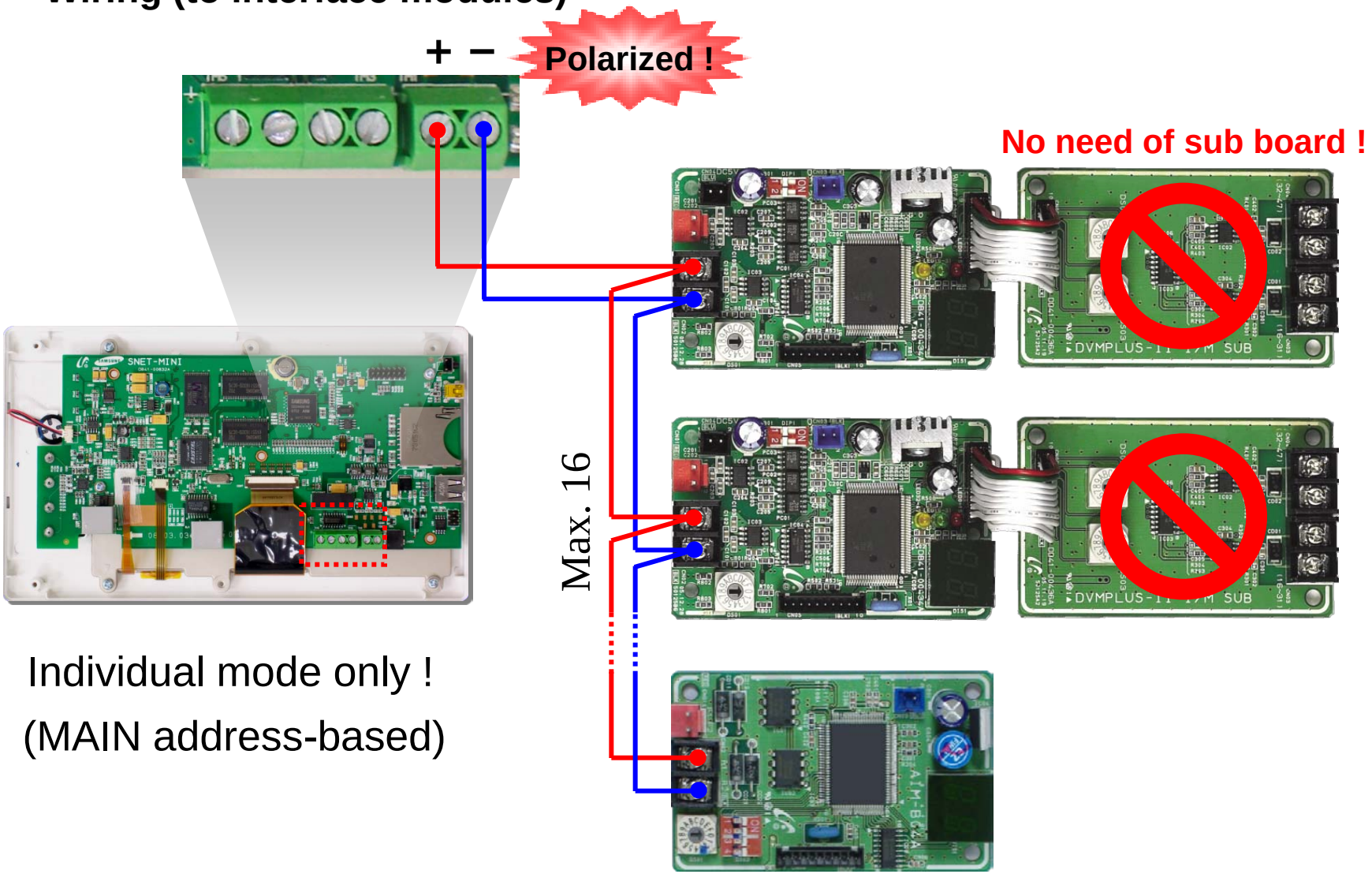






Touch panel controller – MST-S3W

- Wiring (to interface modules)



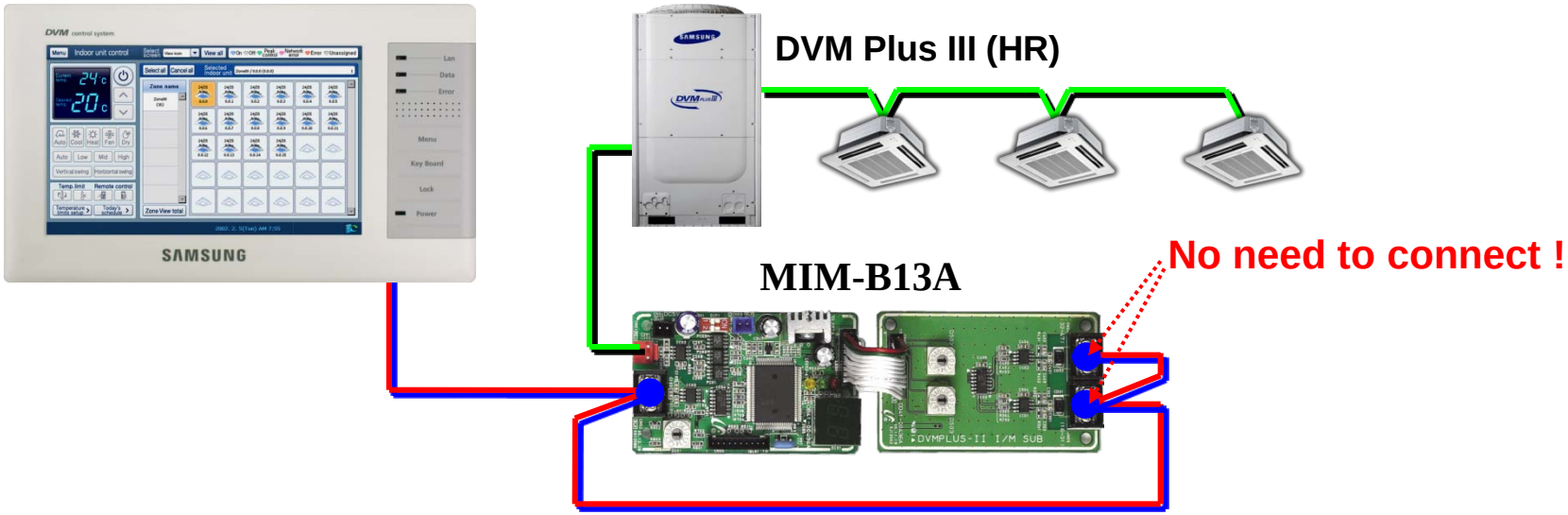
Individual mode only !

(MAIN address-based)

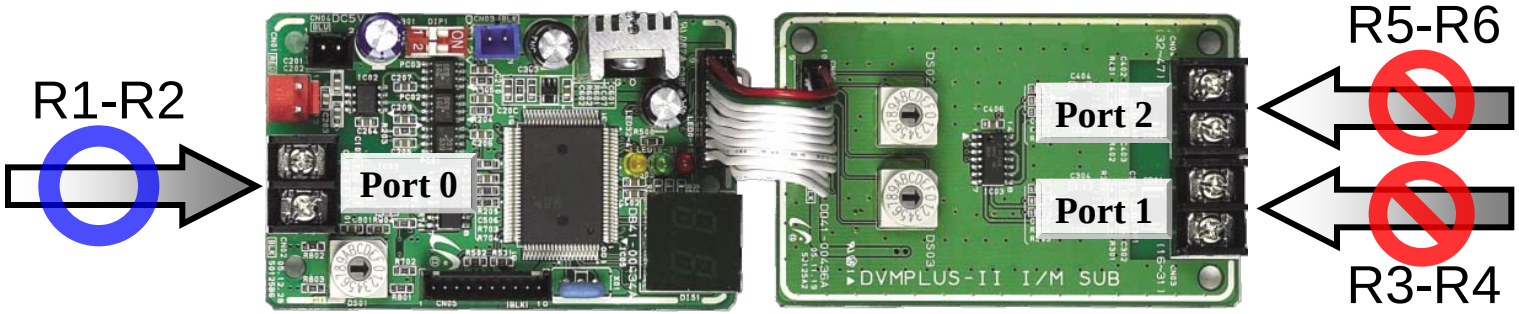
Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

- Wiring (to interface modules)



▪ **Port connection with S-NET mini – Port 0 allowed only !**

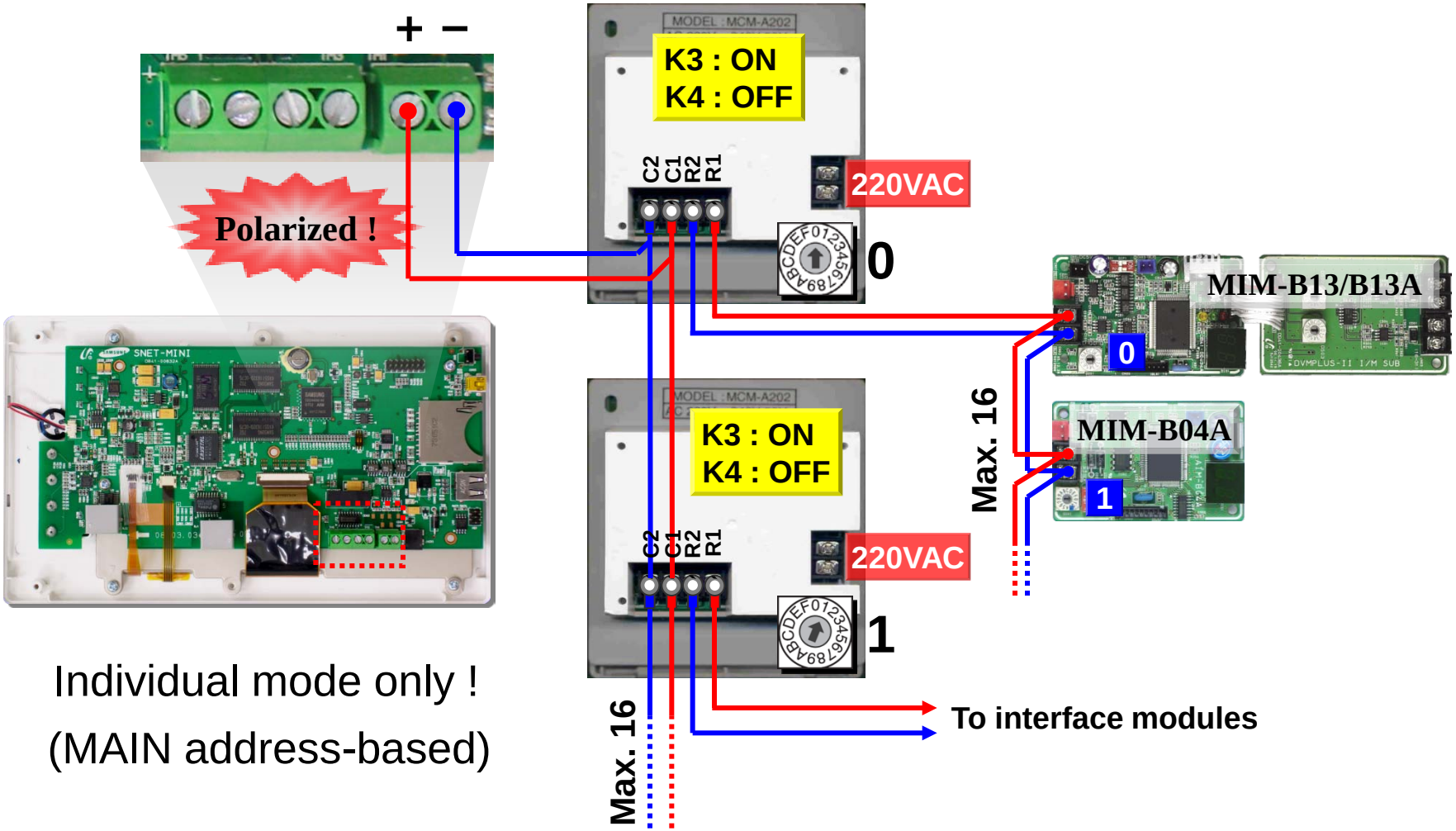


MIM-B13 or MIM-B13A/B

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

- Wiring (to on/off controllers)



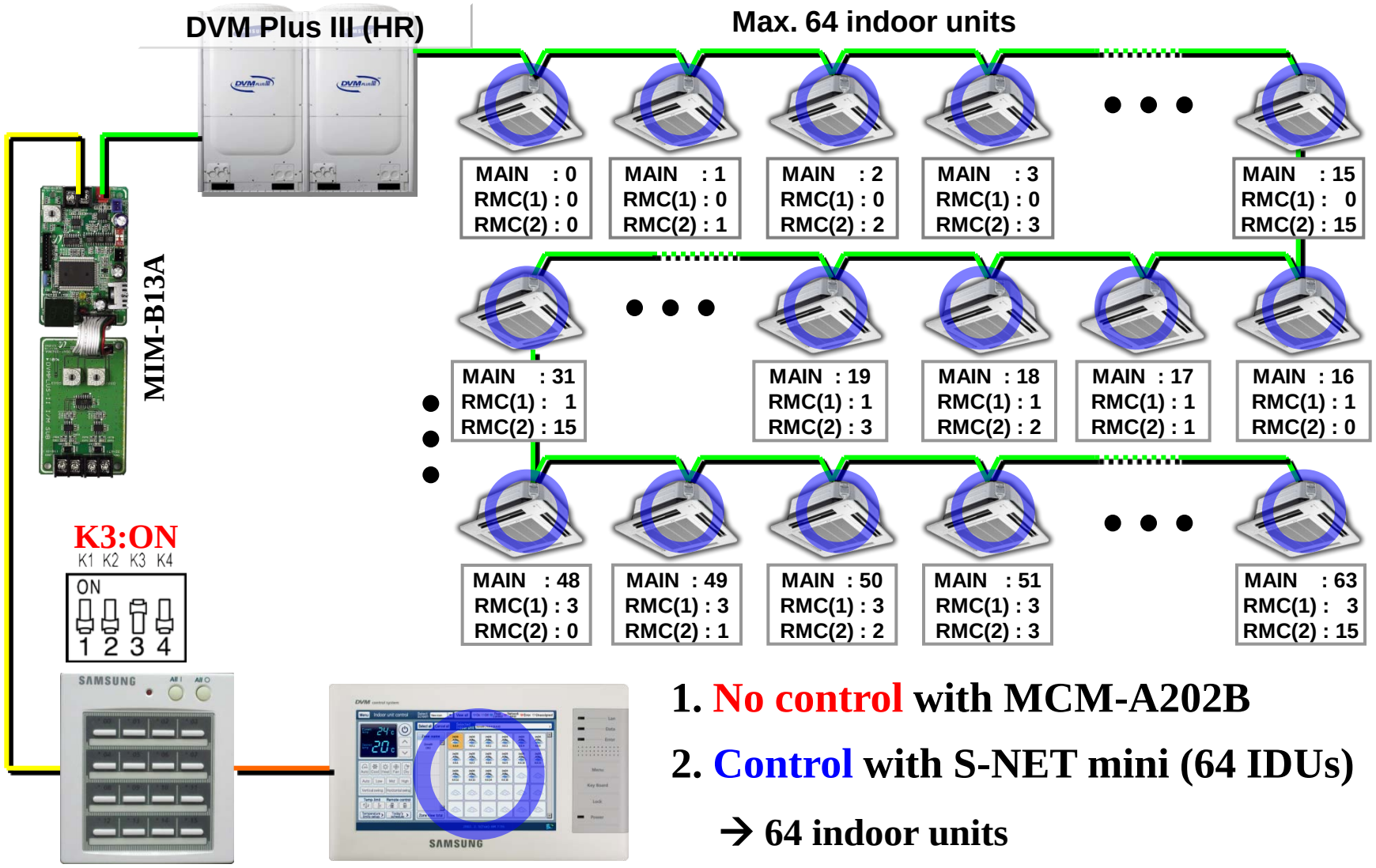
Individual mode only !

(MAIN address-based)

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

- Control example



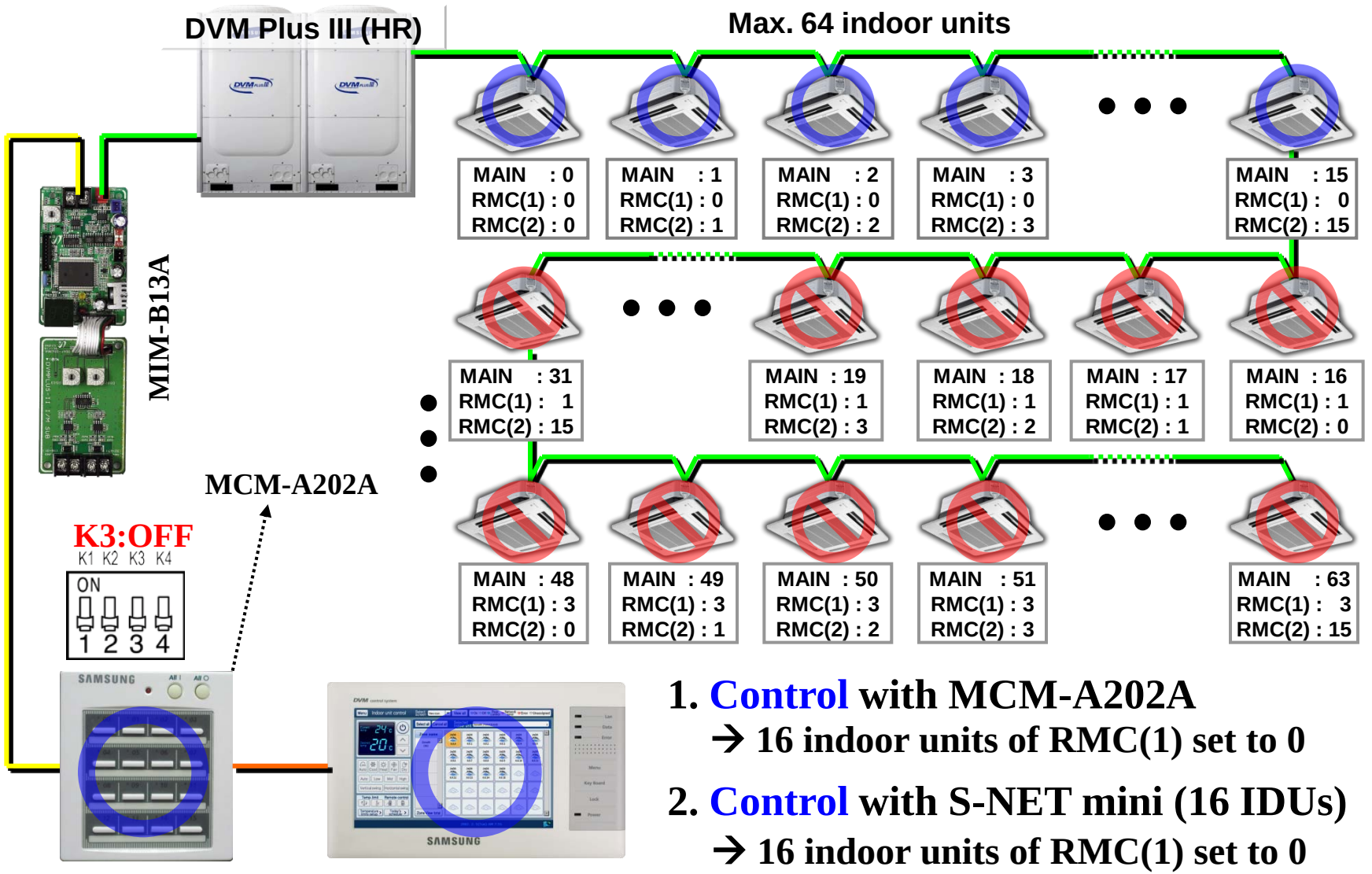
1. **No control with MCM-A202B**
2. **Control with S-NET mini (64 IDUs)**

   → **64 indoor units**

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

- Control example

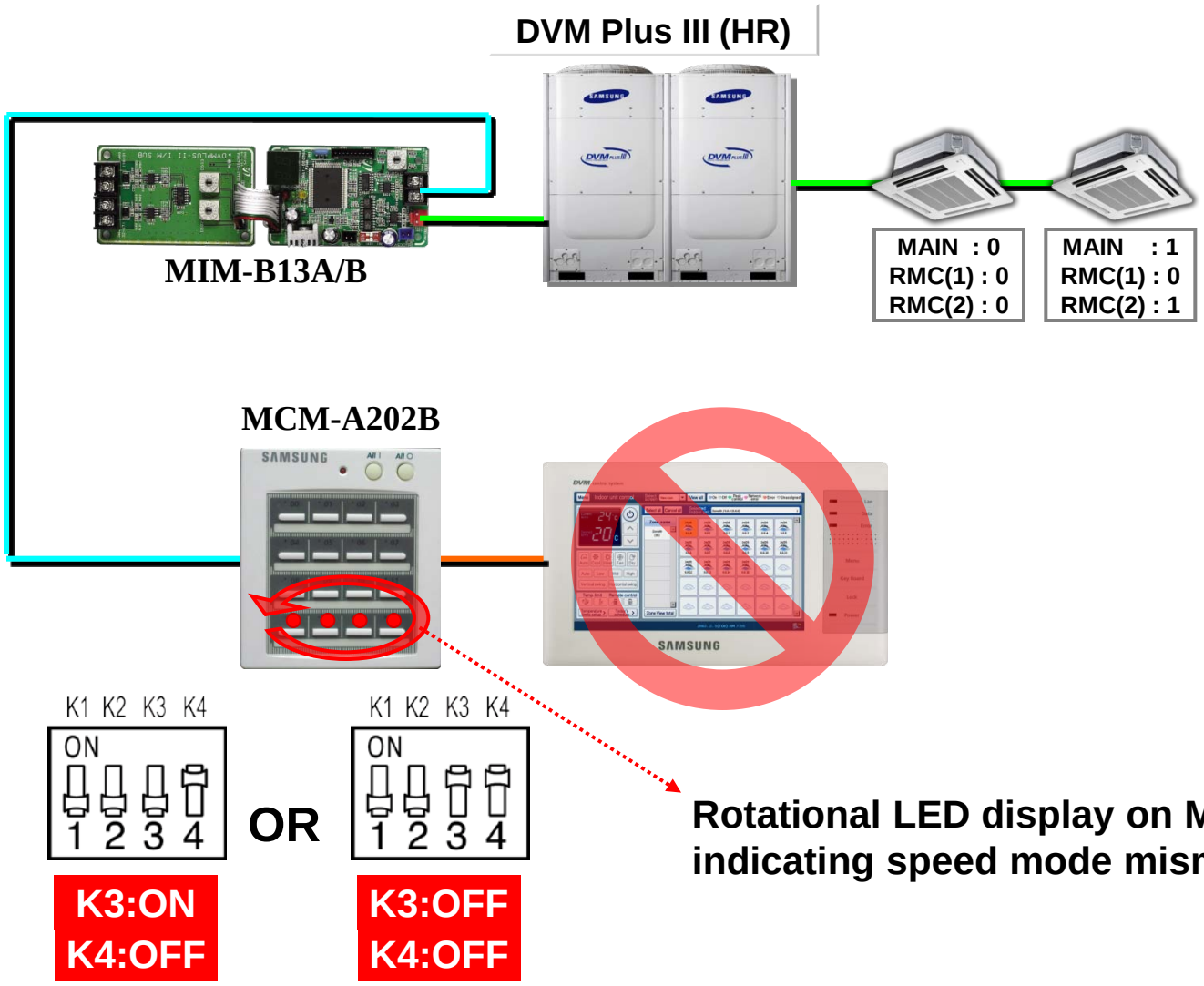


1. **Control** with MCM-A202A
   → 16 indoor units of RMC(1) set to 0
2. **Control** with S-NET mini (16 IDUs)
   → 16 indoor units of RMC(1) set to 0

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

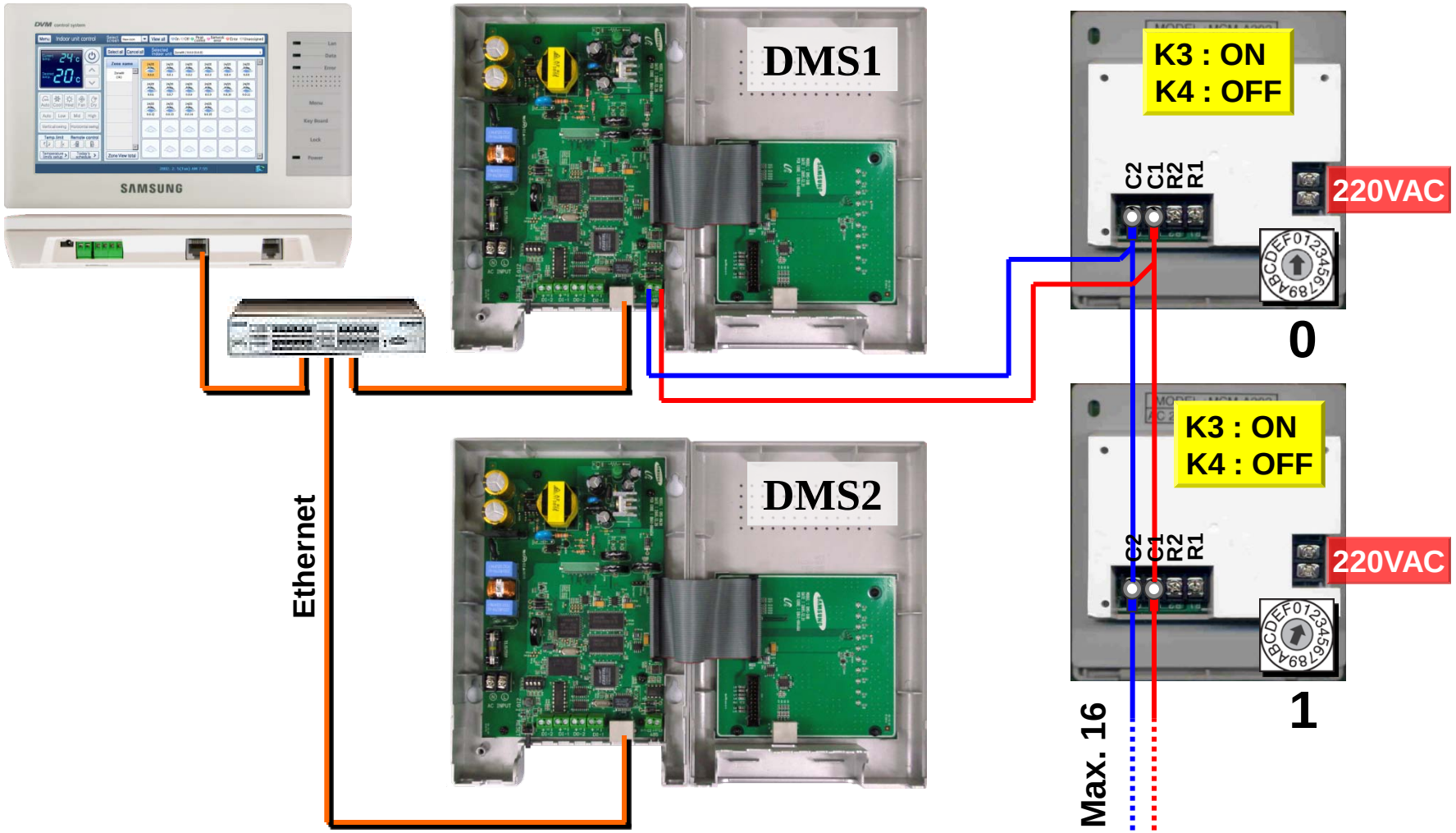
- Control example



Touch panel controller – MST-S3W

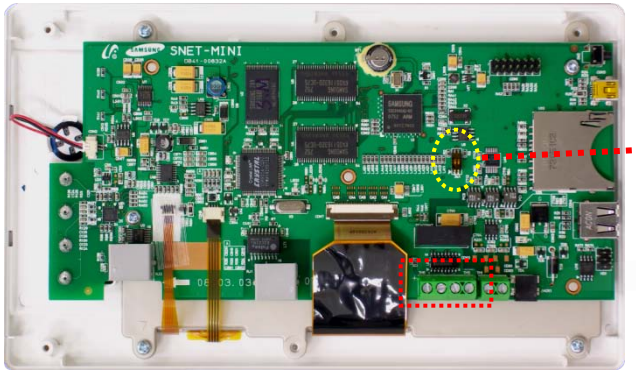
SAMSUNG ELECTRONICS CO.LTD

- Wiring (to DMS)

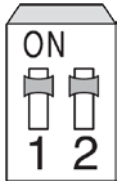


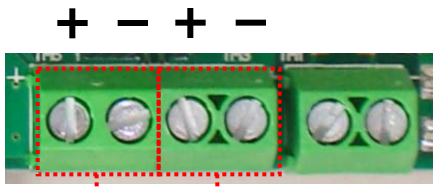
Touch panel controller – MST-S3W

- Option switch



Option switch





Contact input2 (DI-2)

Contact input1 (DI-1)

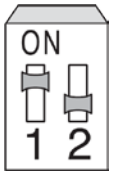
Max. load : 12VDC, 5mA

Pattern	DIP SW No		Control	Input type
	1	2		
1	ON	ON	No function (Default setting)	Not applied
2	ON	OFF	▪ Emergency stop / Resume operation Other additional functions are temporarily disabled under Emergency stop.	No-powered level-triggered
3	OFF	ON	▪ Indoor unit ON/OFF control ▪ Permitted/Prohibited remote control use Other additional functions are not interrupted.	No-powered level-triggered
4	OFF	OFF	▪ Indoor unit ON/OFF control Other additional functions are not interrupted.	No-powered pulse-triggered

Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

Pattern2



Option switch

DI-2 — No function

DI-1 — External contact (level-triggered)

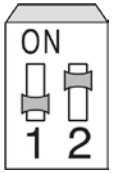
Close contact : Emergency stop

. Turns off all the indoor units when there is an Close signal input.
. All the remote controller use is disabled.
. DMS will ignore any request from the upper-layer controllers.
. Schedule control is disabled temporarily.

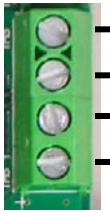
Open contact : Resume operation

. After Emergency stop, the indoor units stay the current OFF states.
. All the remote controller use is restored to the previous state.
. Schedule controls is enabled again.

Pattern3



Option switch



DI-2 — External contact (level-triggered)

DI-1 — External contact (level-triggered)

External contact input to DI-1

Close input : Starts all indoor unit operation to the last mode.
Open input : Stops all indoor unit operation.

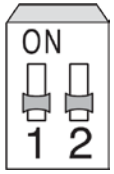
External contact input to DI-2

Close input : Enables all wired/wireless remote control use.
Open input : Disables all wired/wireless remote control use.

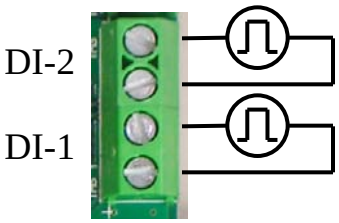
NOTE : Schedule control is not interrupted in Pattern 3

Touch panel controller – MST-S3W

Pattern4



Option switch



External contact
(pulse-triggered)
Duration : 0.5~1.0sec

External contact pulse input to DI-1

Close pulse-triggered : Starts all indoor unit operation.

External contact pulse input to DI-2

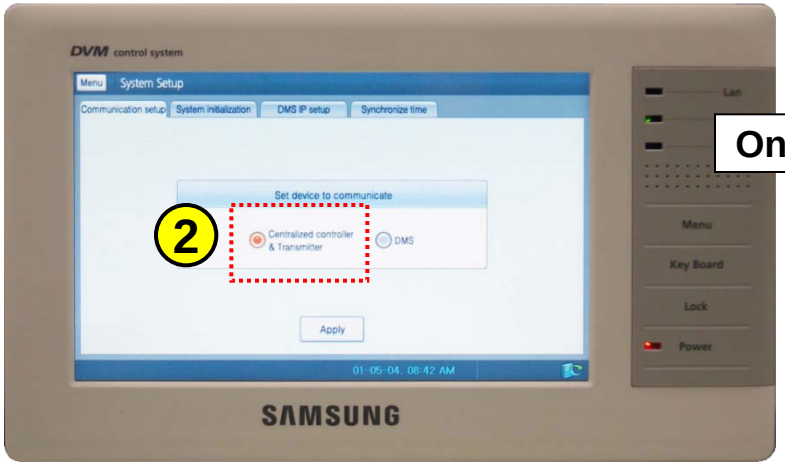
Short pulse-triggered : Stops all indoor unit operation.

NOTE : Schedule control is not interrupted in Pattern 4

Touch panel controller – MST-S3W

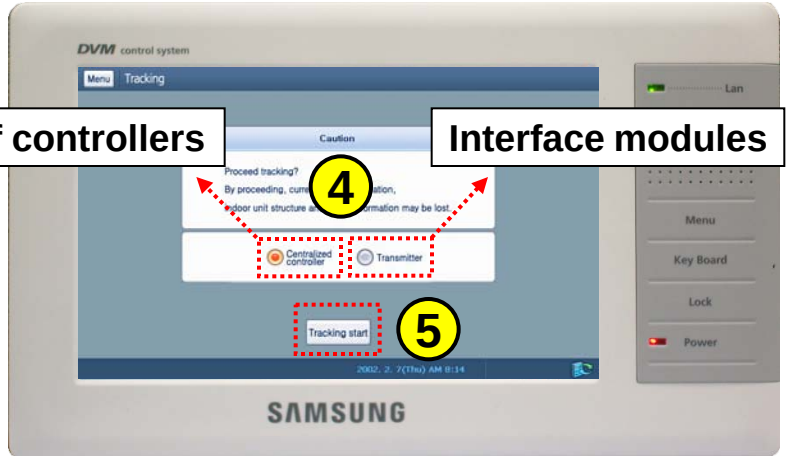
SAMSUNG ELECTRONICS CO.LTD

- Indoor unit tracking (to interface modules or on/off controllers)



On/off controllers

Interface modules

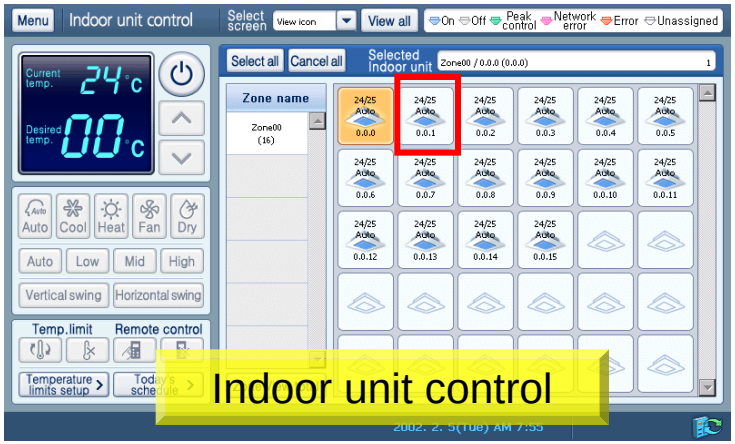


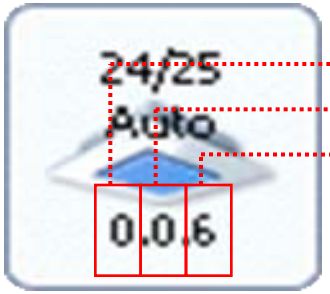
Press Tracking start to find the Installed Indoor units

Touch panel controller – MST-S3W

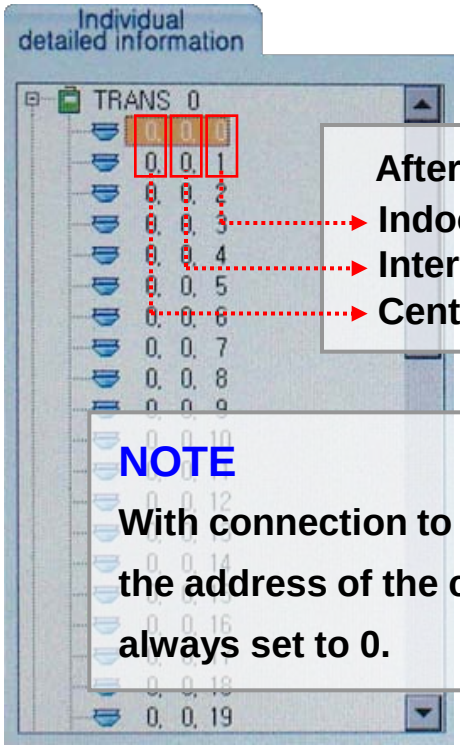
SAMSUNG ELECTRONICS CO.LTD

- Indoor unit address display (to interface modules or on/off controllers)





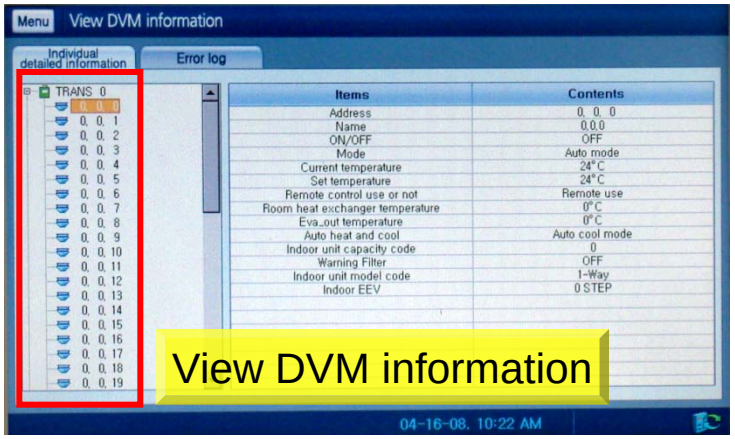
After system tracking
Centralized controller address
Interface module address
Indoor unit MAIN address



After system tracking
Indoor unit MAIN address
Interface module address
Centralized controller address

NOTE

With connection to the interface modules, the address of the centralized controller is always set to 0.



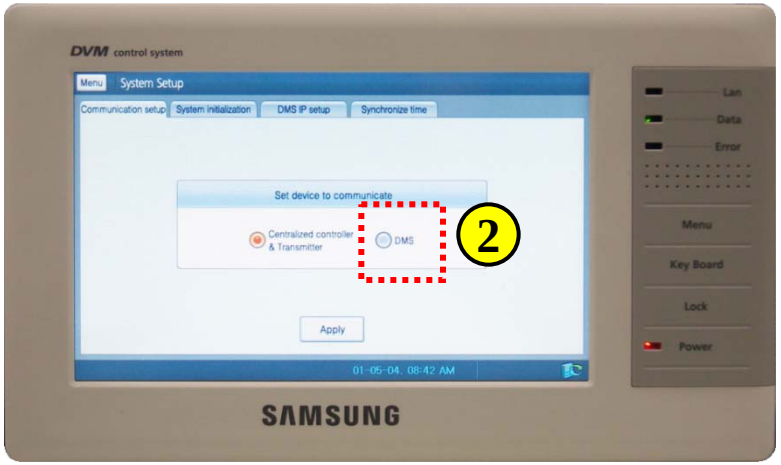
Touch panel controller – MST-S3W

SAMSUNG ELECTRONICS CO.LTD

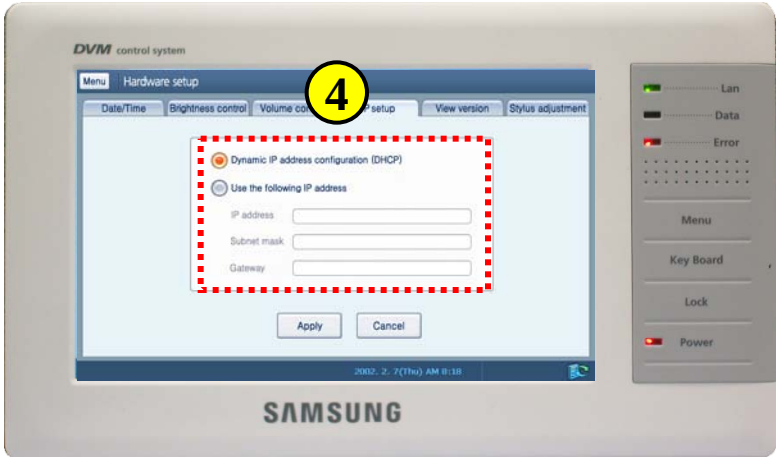
- Indoor unit tracking (to DMS)

Press System management

Press H/W setup

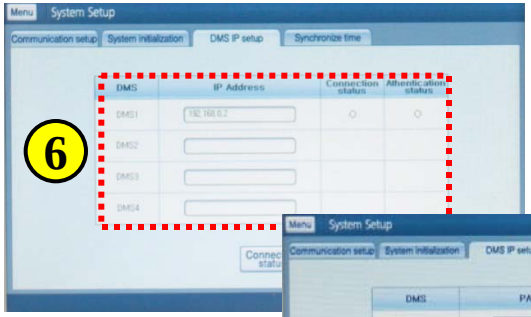


Rebooting after selecting DMS

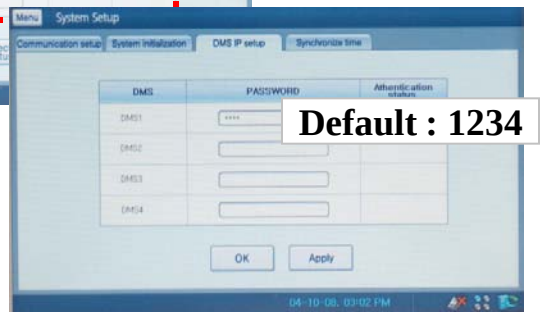


S-NET mini IP setup

Touch panel controller – MST-S3W

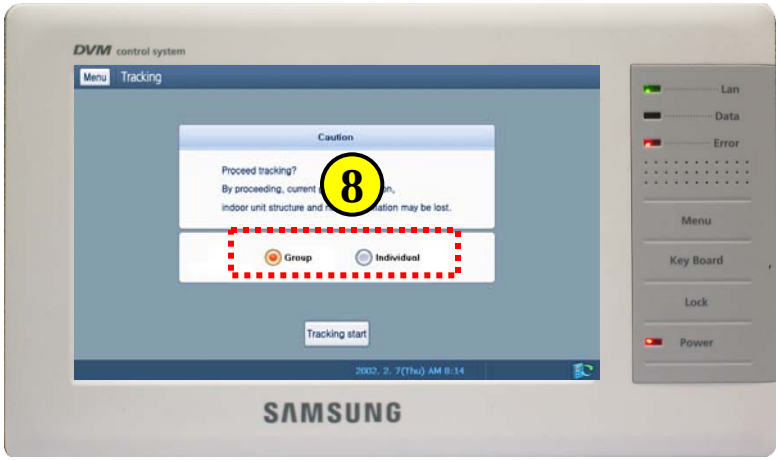


DMS IP setup



Default : 1234

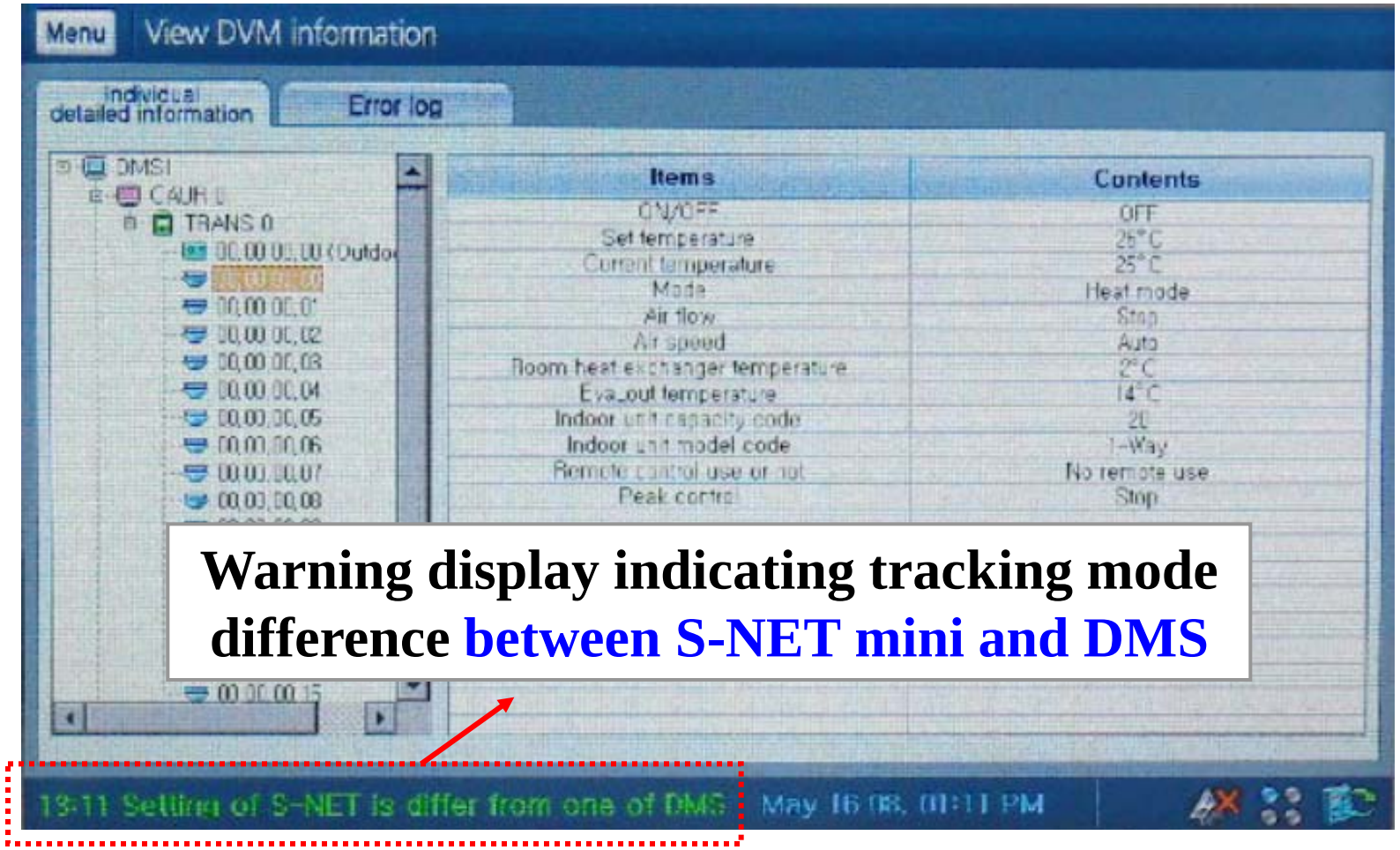
Authorization



Group / Individual mode

SAMSUNG ELECTRONICS CO.LTD

- DMS mode setting error

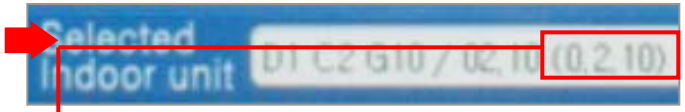


- Change the DMS mode setting to Group mode

Touch panel controller – MST-S3W

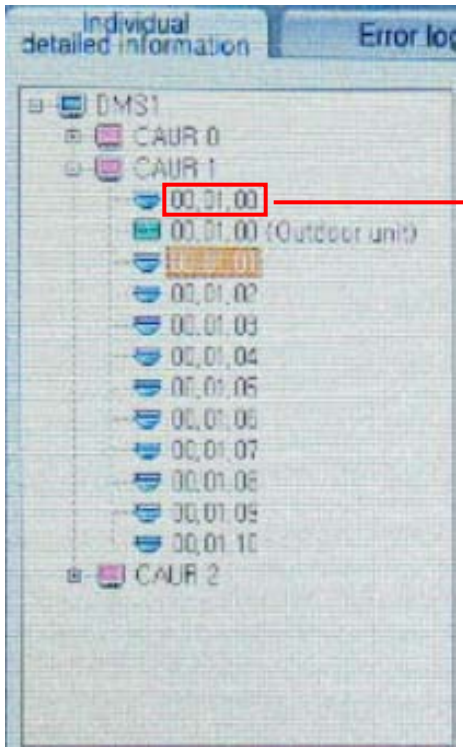
SAMSUNG ELECTRONICS CO.LTD

- Indoor unit address display (to DMS)



Centralized controller address

Indoor unit MAIN address



00.00.00