

# LonWorks I/M Installation Manual

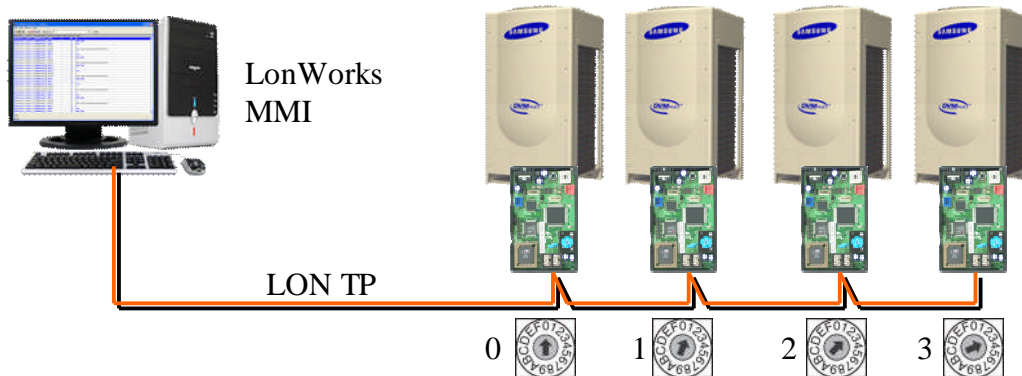
## ► Main Features

One LonWorks I/M can control up to 12 indoor units. Use multiple LonWorks I/Ms to control the indoor units if there are more than 12 indoor units installed on one outdoor unit.

	Function	Details
Control	On/Off	Turn on/off the indoor unit
	Operation mode	Set the indoor unit operation mode (Auto/Cool/Heat/Fan).
	Set Temperature	Set temperature (Cooling 18~30°C, Heating 16~30°C)
	Fan speed	Set the indoor unit fan speed (Auto/Low/Medium/High)
Monitoring	On/Off	Monitor the on/off state of the indoor unit.
	Operation mode	Monitor the operation mode of the indoor unit.
	Room temperature	Monitor current indoor temperature.
	Error state	Monitor the error status and the error code.

## ► Application for Module Multi Outdoor Units (when more than 12 indoor units are installed on one outdoor unit)

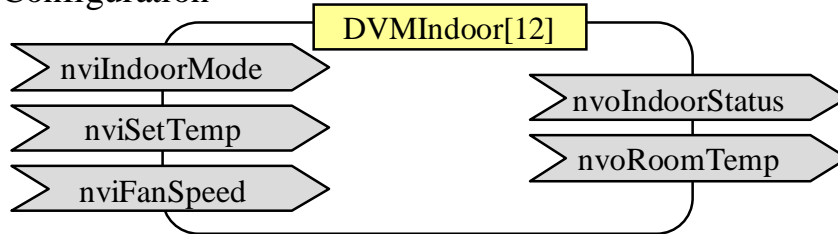
- Connect the LonWorks I/M terminal J2 as shown below and set the address of the LonWorks I/Ms according to the table below.



LonWorks I/M address	Indoor unit MAIN address	Remarks
0	0~11	- Each LonWorks I/M manages 12 indoor units. - One of the LonWorks I/M addresses must be “0”. (Always set the address starting from “0” – default setting : 0) - Do not install more than two LonWorks I/Ms on one outdoor unit.
1	12~23	
2	24~35	
3	36~47	

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## ► SNVT Configuration



No	NV Name	Index	NV Type	Description
1	nviIndoorMode[12]	2~13	SNVT_hvac_mode	On/Off and operation mode setting
2	nviSetTemp[12]	14~25	SNVT_temp_f	Temperature setting
3	nviFanSpeed[12]	26~37	SNVT_switch	Fan speed setting
4	nvoRoomTemp[12]	38~49	SNVT_temp_f	Room temperature monitoring
5	nvoIndoorStatus[12]	50~61	SNVT_hvac_status	On/Off, mode, Error monitoring

### 1) nviIndoorMode

SNVT_hvac_mode	Operation	Operation Mode
HVAC_OFF	Off	Off
HVAC_AUTO	mode	Auto mode
HVAC_COOL	mode	Cooling mode
HVAC_HEAT	mode	Heating mode
HVAC_FAN_ONLY	mode	Fan mode

### 3) nviFanSpeed

State	Value	Operation
Any	0	Auto
	1	Low
	2	Medium
	3	High

2) Set temperature range : Cooling 18 ~ 30°C; Heating 16 ~ 30°C

### 4) nvoIndoorStatus

Field	Type	Description
mode	hvac_t	On/Off, control mode
heat_output_primary	signed long	Indoor unit MAIN address
heat_output_secondary	signed long	Not used
cool_output	signed long	Not used
econ_output	signed long	Not used
fan_output	signed long	Error code
in_alarm	unsigned short	Error (1:Error, 0:No error)

- Indoor unit MAIN address : heat\_output\_primary x 1000 / 5
- Error code : fan\_output x 1000 / 5