

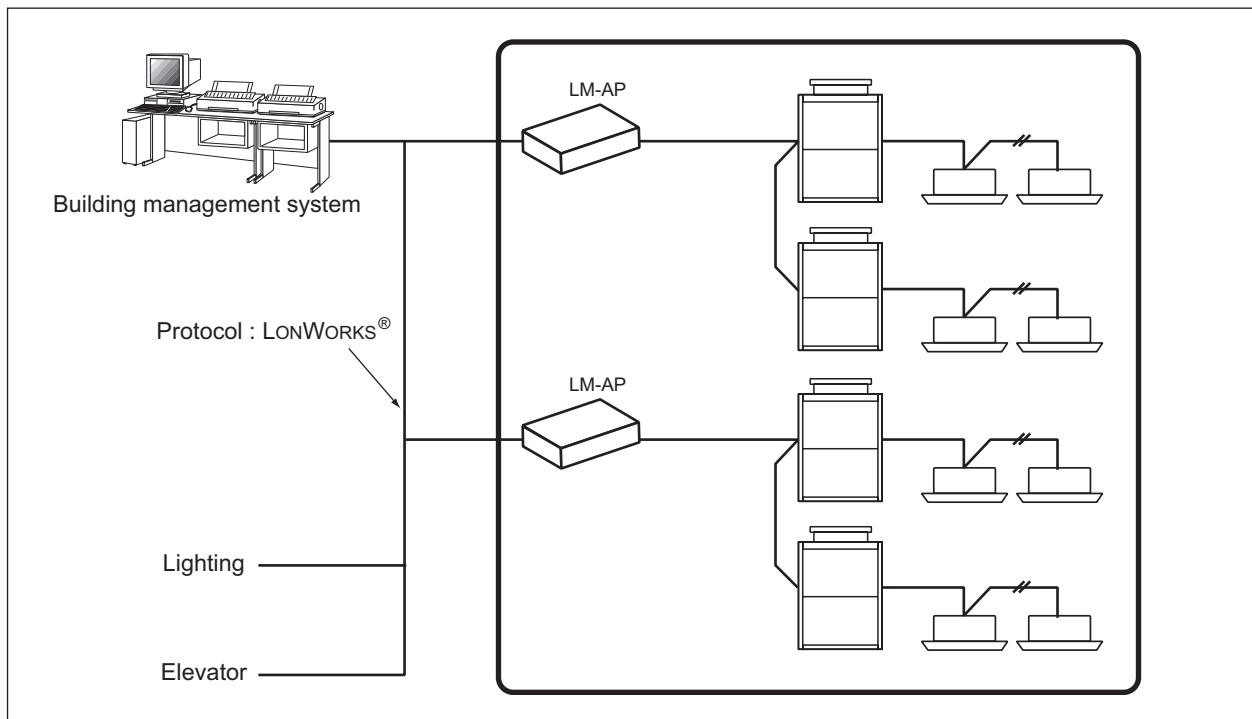
3-7. LONWORKS® interface [LMAP04-E]

CITY MULTI can easily combine into a Building Management System (BMS) via the LONWORKS® and M-NET adapter LMAP04-E. LONWORKS® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LONWORKS®.



One LMAP04-E serves up to 50 indoor units. (CITY MULTI, Mr.Slim, and Lossnay)

■ System example



Communication items at LONWORKS® and M-NET Adapter LMAP04-E

Operation	On/Off Mode Set point from network (Set temp.) Fan speed Prohibit local On/Off Prohibit local Mode Prohibit local Set temp. Collective Local Prohibit Forced Thermostat OFF Filter Sign Reset Time Stamp Limit Temperature Setting Range (*2) Simplified Locking (*2) Batch Off	State Monitoring	Emergency On/Off Collective On/Off Mode Set point from network (Set temp.) Fan speed Prohibit local On/Off Prohibit local Mode Prohibit local Set temp. Collective Local Prohibit Forced Thermostat OFF Run Time for Filter
	Set point from network (cool) Set point from network (heat) Set point from network (auto)		Indoor temperature Defrost Group Number Alarm signal Collective Alarm for Indoor Unit Collective Alarm for LM ADAPTER Error Code Error Address Thermo On/Off state_1 (*1) Thermo On/Off state_2 (*1) Model Code (*1) Set point from network (cool) Set point from network (heat) Set point from network (auto)

Note

- *1: This product does not have a charge function.
The charge (apportioning) function must be prepared separately in the master system.
- *2: This function is not available when PAR-U02MEDA is connected to the system.

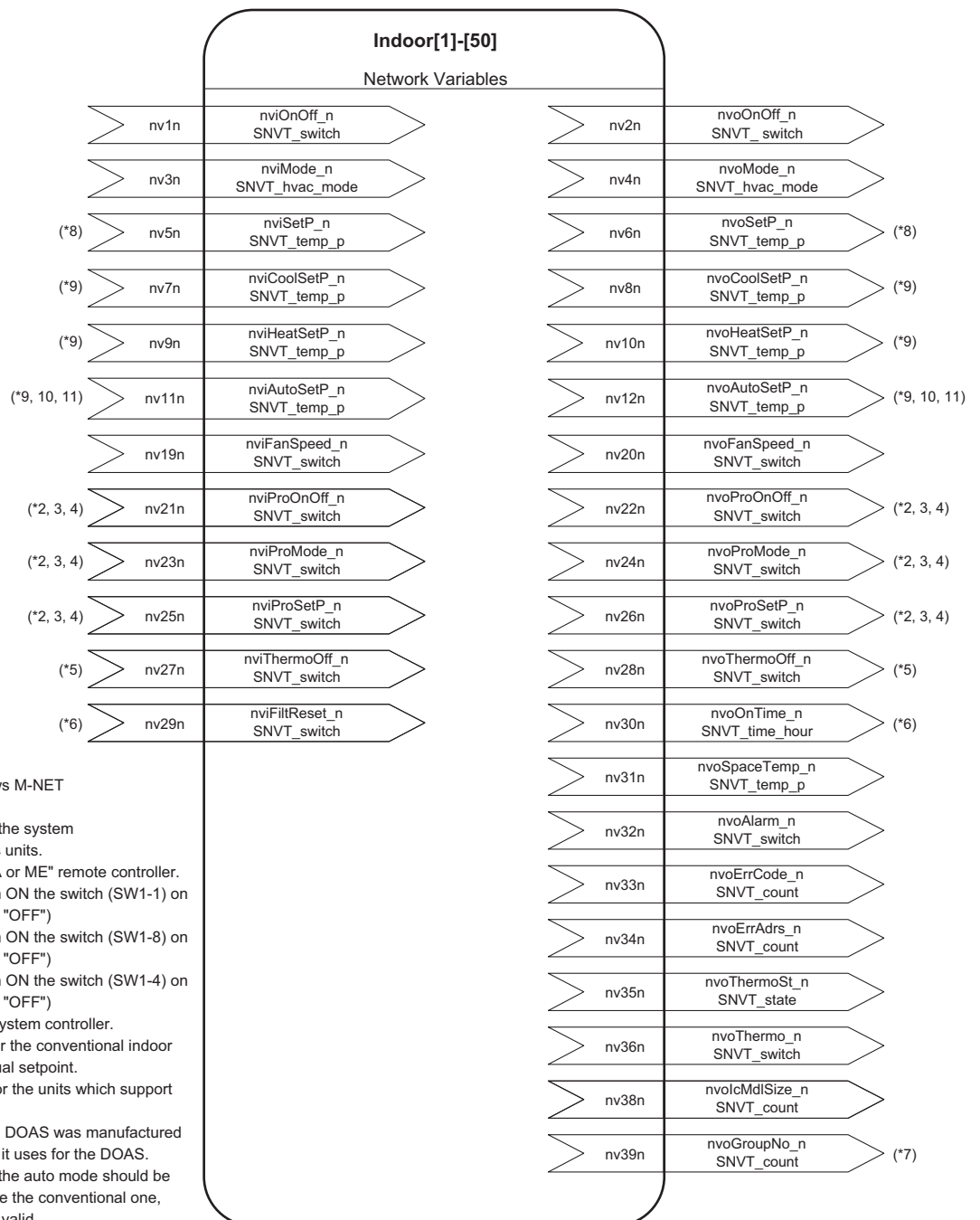
■ Environment specification

Item	Description	
Connected Equipment	MITSUBISHI ELECTRIC Multiple split-type air conditioners Split-type air conditioners Heat recovery ventilators CITY MULTI Mr.Slim Lossnay (*:For details of the connectable models,please contact the dealer.)	
Number of Units	LM-AP can control 50 indoor units (including Lossnay)	
Neuron CHIP	TMPN3150/FT3150-P20 (10MHz)	
Network Transceiver	FTT-10A/FT-X1 (Free Topology 78kpbs)	
Performance	Average communication capacity	2.5 inputs/second
	Peak communication capacity	50 inputs/second (for one second)

- *: The proper communication is not obtainable when communication intervals exceed its performance, assure sufficient intervals.
- *: ACK Service is recommended for the network service.
- *: Detailed specifications for the LONWORKS® network can be found in "FTT-10A Free Topology Transceiver User's Guide" or "FT3120/FT3150 Smart Transceiver Data Book" by Echelon Corporation.

<LMAP04-E Network Variables>

Please obtain the Network Variables Specification for details from your dealer.



Notes

- *1: "n" of the network variable shows M-NET address of indoor units.
- *2: It may be unable to be used by the system configuration of air-conditioners units.
- *3: It is possible to use with an "MA or ME" remote controller.
- *4: For the use of this function, turn ON the switch (SW1-1) on LM ADAPTER. (Factory setting "OFF")
- *5: For the use of this function, turn ON the switch (SW1-8) on LM ADAPTER. (Factory setting "OFF")
- *6: For the use of this function, turn ON the switch (SW1-4) on LM ADAPTER. (Factory setting "OFF")
- *7: It is possible to use with other system controller.
- *8: This function is available only for the conventional indoor units which don't support the dual setpoint.
- *9: These functions are available for the units which support the dual setpoint.
- *10: This function is available for the DOAS was manufactured in October, 2012 or later, when it uses for the DOAS.
- *11: This function is available when the auto mode should be controlled by single set point like the conventional one, even when the dual set point is valid.

External dimension

