

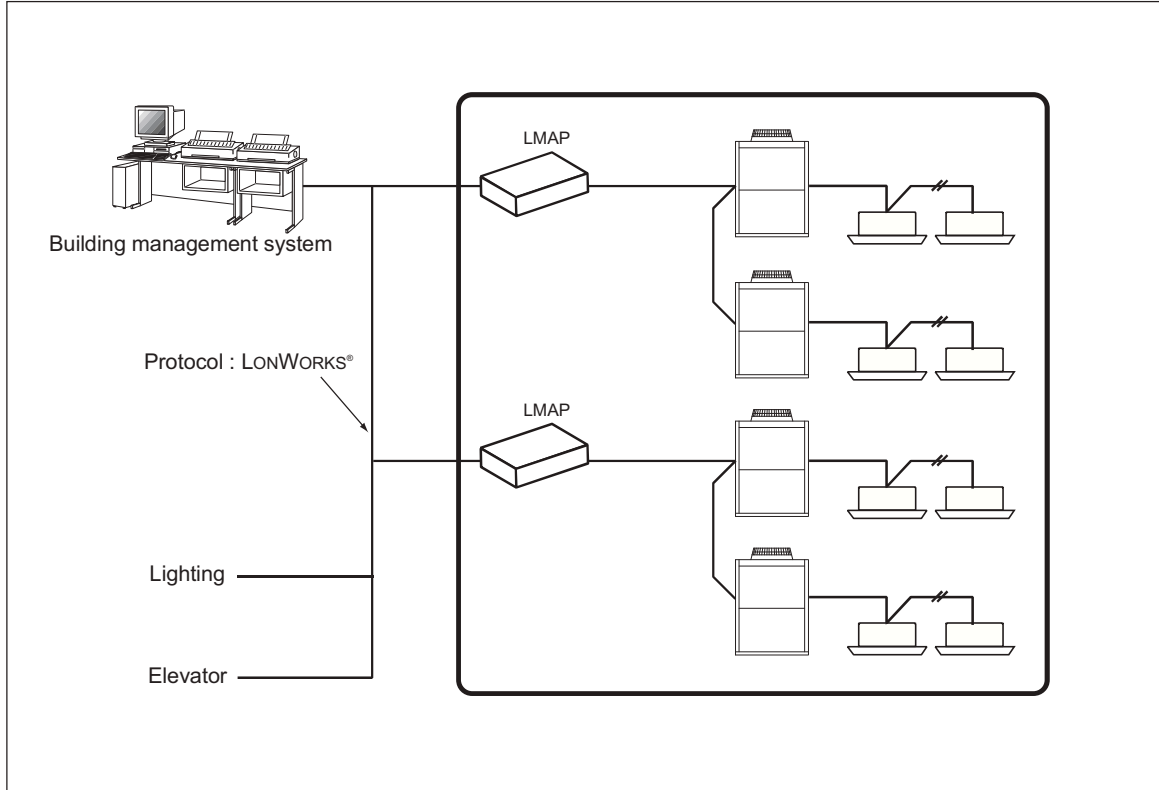
### 3. SYSTEM CONTROLLER

#### 3-12. LonWorks® interface [LMAP03U]

CITY MULTI® can easily combine into a Building Management System (BMS) via the LONWORKS® and M-NET adapter LMAP03U. 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 LMAP03U serves up to 50 indoor units. (CITY MULTI®, Mr. Slim®, and LOSSNAY®.)

■ System example



Communication items at LONWORKS® and M-NET Adapter LMAP03U

Operation	On/Off Mode Set point from network (Set temp.) Fan speed	State Monitoring	On/Off Mode Set point from network (Set temp.) Fan speed
	Prohibit local On/Off Prohibit local Mode Prohibit local Set temp.		Thermo On/Off Indoor temperature Alarm signal
	Batch Off		Prohibit local On/Off Prohibit local Mode Prohibit local Set temp.

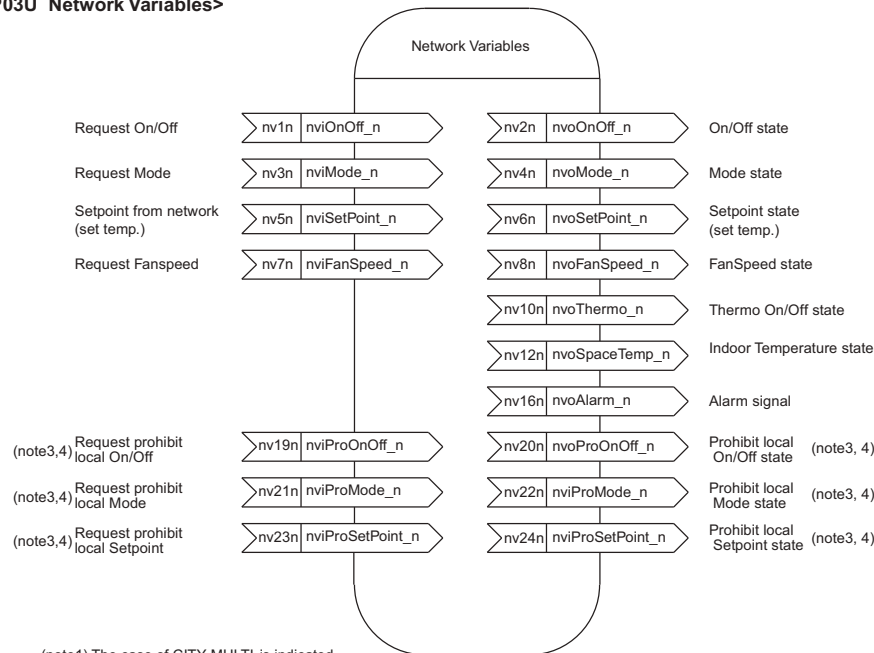
### 3. SYSTEM CONTROLLER

#### ■ Environment specification

Item	Description	
Connected Equipment	MITSUBISHI ELECTRIC Multiple split-type air conditioners CITY MULTI Split-type air conditioners Mr.Slim Heat recovery ventilators LOSSNAY (*For details of the connectable models, please contact the dealer.)	
Number of Units	LMAP can control 50 indoor units (including LOSSNAY)	
Neuron CHIP	TMPN3150 (10MHz)	
Network Transceiver	FTT-10A (Free Topology 78kbps)	
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" by Echelon Corporation.

#### <LMAP03U Network Variables>



(note1) The case of CITY MULTI is indicated.  
 (note2) There is a case which cannot be used with the system configuration of the air conditioners units.  
 (note3) "n" of the network variable shows indoor unit address (M-NET).  
 (note4) It is possible to use when the "MA" remote controller.

#### ■ External dimension

Dimensions: 360[14-3/16] (W) x 340[13-7/16] (D) x 59.6[2-3/8] (H)

Net Weight: 3.4 kg (7-1/2 lb)

Power Source: ~ 208 - 230V (60 Hz)

Current Consumption: 50 mA (Maximum)

Operation Environment: Temperature: Operating Range -15 to 43°C / 5 to 109°F, Storage Range -20 to 60°C / -4 to 140°F; Humidity: 30 to 95 RH (No condensation)

Installation Environment: In the control box

Item	Description
Dimensions	340 (H) x 360 (W) x 59.6 (D) [13-7/16(H) x 14-3/16 (W) x 2-3/8(D)]
Net Weight	3.4 kg (7-1/2 lb)
Power Source	~ 208 - 230V (60 Hz)
Current Consumption	50 mA (Maximum)
Operation Environment	Temperature
	Humidity
Installation Environment	In the control box