

Job Name:

Schedule Reference:

Date:

**AE-50A**

- AE-50A Expansion Module
- Network up to three AE-50A expansion modules with one AE-200A
- Annual and Weekly Scheduling, Sending Error Email, Online Maintenance Tool, Interlock Control and Data Monitoring
- AE-200A is always required with AE-50A.

OPTIONAL SOFTWARE (Pin Code Purchase Required*)

- AE-200-PCS - Proportion Charging Function: Tenant Billing
- AE-200-PW - Personal Web Function
- AE-200-PLC - PLC General Equipment Function
- AE-200-BACNET - BACnet Interface Function

*Pin Codes must be purchased separately for AE-50A in any configuration.

AE-50A EXPANSION CONTROLLER SPECIFICATIONS

- Manages up to 50 indoor units individually, in a group or in a collective batch operation
- Networked three AE-50A to one AE-200A to allow AE-200A to manage up to 200 indoor units.
- Supports dual set point functionality (connected model dependent)
- Displays:
 - CITY MULTI[®] compressor speed and hi/low pressure
 - Advanced HVAC Controller (DC-A2IO) input/output status
 - Indoor unit free contact input/output status
 - Space Temperature and Humidity (from Smart ME or AI controller)
 - Error code
 - Unoccupied setback up temperature range
- Functions
 - Hold function (temporarily disables schedules indoor unit model dependent)
 - Initial setting
 - Operation data back-up
- Permits or prohibits remote controller functions:
 - On/Off
 - Change Operation Mode
 - Change Set point Temperature
 - Filter Status
 - Change Fan Speed
 - Change Air Direction
- External input/output signals can be used for batch operations such as Start/Stop and Emergency Stop (Requires PAC-YG10HA)

- Temperature set point range limits can be set for local remote controllers
- User defined indoor unit functions:
 - On/Off
 - Monitoring and Operation
 - Operation mode:
 - Auto* (Dual or Single set point)
 - Cool
 - Heat
 - Fan
 - Drying
 - Setback*
- Note: *R2 Series only (connected equipment dependent)
- Temperature Setting
- Fan Speed
- Airflow Direction
- Monitoring and Control:
 - CITY MULTI[®] indoor units
 - M & P Series units (Requires M-Net adapter)
 - Lossnay units
 - PWFY hydronic heat pump units
 - DIDO controllers
 - CITY MULTI[®] DOAS
 - Interlock setting enables integration of general equipment inputs/outputs and indoor units
- Scheduling
 - Daily
 - Annually
 - Five pattern weekly seasonal schedule
- Twenty four scheduled events per day, indoor unit model dependent:
 - ON/OFF
 - Mode
 - Temperature Setting
 - Vane Direction
 - Fan
 - Speed
 - Operation Prohibits
- Trend data:
 - Fan operation time
 - Thermo-on time
 - Set temperature
 - Room temperature
 - AI Controller temperature and humidity (Requires PAC-YG63 MCA, 2 inputs total for each controller)
- 10.4" back lit, high resolution LCD color, touch panel, diagonal display
- Memory back up via USB (universal serial bus) port

Model: AE-50A - Specifications, cont.

AE-50A Expansion Controller

Item	Specifications		
Power Supply*	Rated input	100–240 VAC ± 10%; 0.3–0.2 A 50/60 Hz Single-phase	
	Fuse	250 VAC 6.3 A Time-Lag type (IEC 60127-2S.S.5)	
M-NET power feeding capability		No specifications**Only an MN converter can be connected.	
Ambient conditions	Temperature	Operating Range	0° C – +40° C (+32° F – +104° F)
		Non-operating Range	-20° C – +60° C (-4° F – +140° F)
	Humidity		30-90% RH (No condensation)
Weight	2.3 kg (5-5/64 lbs)		
Dimensions (W x H x D)	11-5/32 x 7-55/64 x 2-17/32 in. (284 x 200 x 65 mm)		
Installation conditions	Indoor only **To be used in a business office or similar environment		

*Note: Requires separate PAC-SC51KUA (Power Supply Unit) in certain applications/configurations.
Please refer to the Installation Manual for more information.

Web Browser Requirements

Item	Requirements	
CPU	1 GHz or faster	
Memory	512 MB or more	
Screen Resolution	1024 x 768 or higher recommended	
Compatible Browser	Windows®	Microsoft® Internet Explorer 8.0 Microsoft® Internet Explorer 9.0 * Java execution environment is required. (Oracle® Java Plug-in Ver. 1.7.0_11) * Install Oracle® Java Plug-in that is appropriate for your operating system. When using a 64-bit Internet Explorer, install a 64-bit Java Plug-in. * The version of the Oracle® Java Plug-in can be verified by clicking [Java] in the Control Panel.
		Macintosh
Onboard LAN Port or LAN Card	One connector (100BASE-TX)	
Other	Pointing device such as a mouse.	

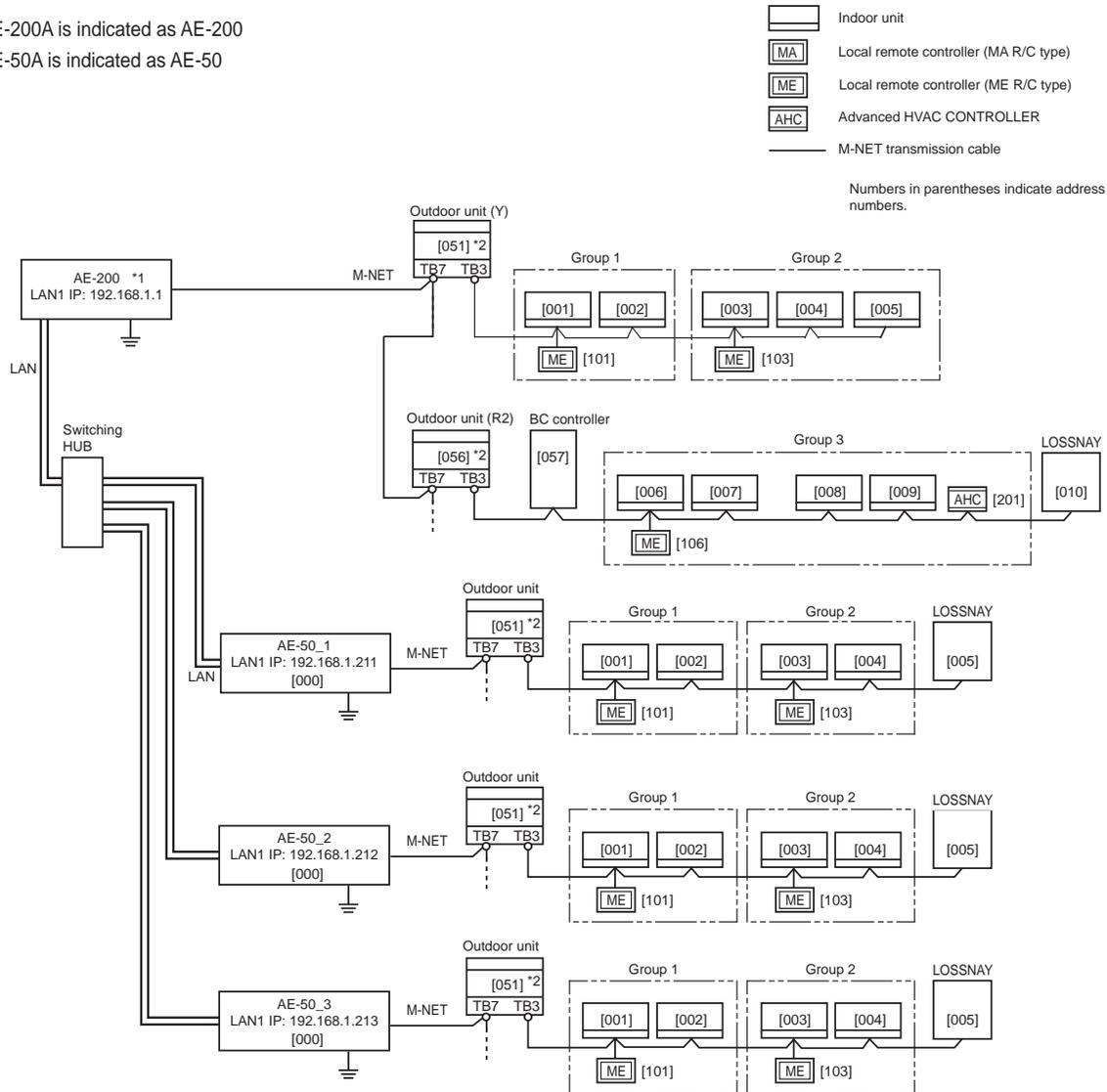
Notes:

Specifications are subject to change without notice.

Models: AE-50A - System Configuration

*AE-200A is indicated as AE-200

*AE-50A is indicated as AE-50



*1 Leave the M-NET power jumper connected to CN21 on the AE-200.

*2 Leave the M-NET power jumper connected to CN41 on all outdoor units.

Note

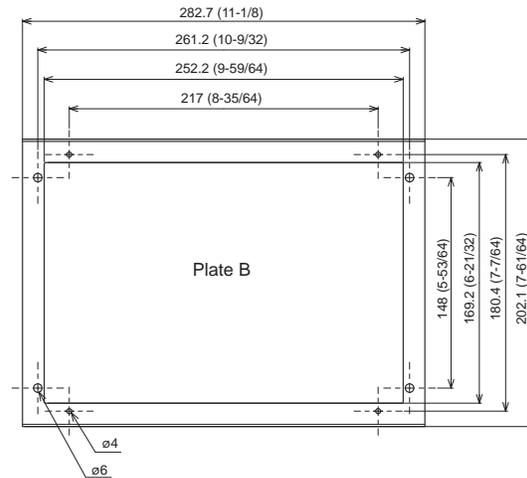
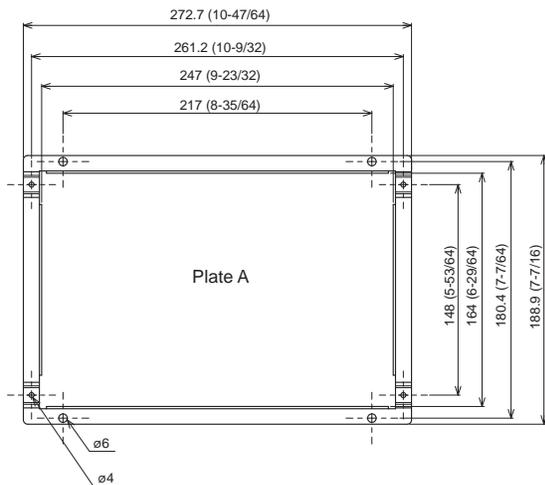
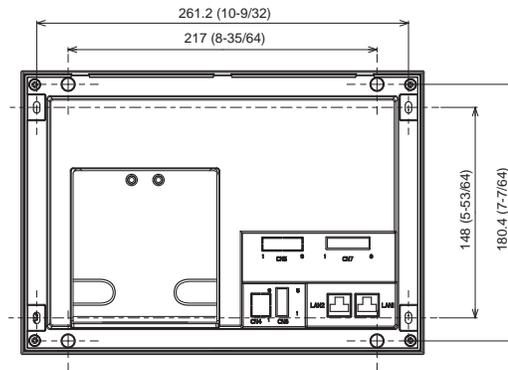
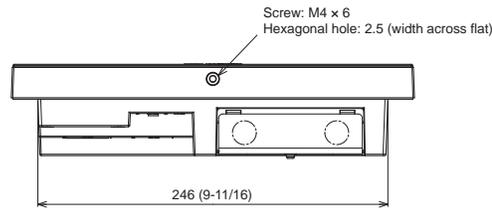
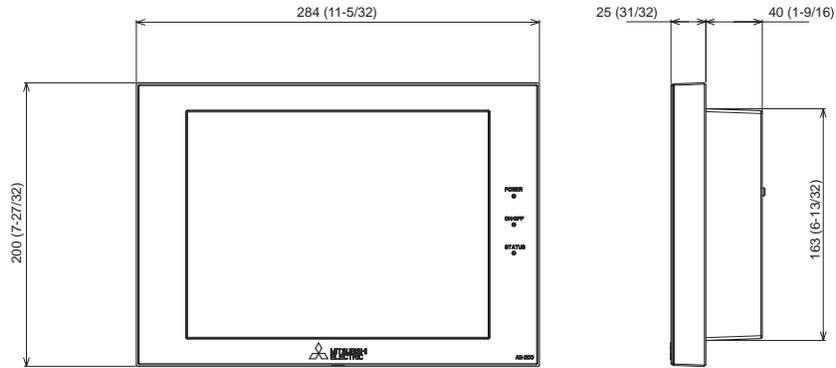
- The same M-NET address cannot be used more than once in an M-NET system that directly connects to each AE-200/AE-50. See (1) above for the addresses for the equipment that are connected to the AE-50 within an M-NET system.

Model: AE-50A - Dimensions

4-2. External dimensions

* The dimensions of AE-200 and AE-50 are the same.

Unit: mm (in)



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