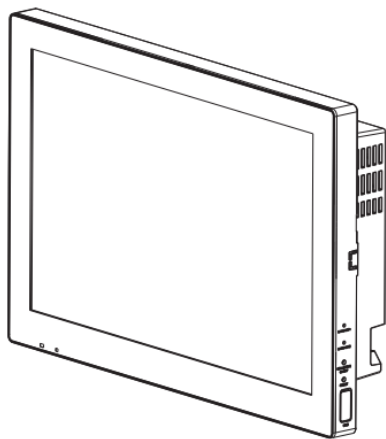


Job Name:

System Reference:

Date:

**AE-C400A**

- AE-C400A may be a Master or Expansion Controller
- Operate and monitor up to 50 indoor units directly connected via M-NET
- As a master controller may control directly up to 7 additional central controllers vi IP network for LCD touchscreen display, up to 400 indoor units total.
- As an expansion controller, the LCD display may operate and display the other 7 central controllers under the same master, up to 400 indoor units
- Network up to 40 total central controllers for Web Display (Integrated Centralized Control Web or ICCW) for up to 2,000 indoor units.
- Secure IP web connection with TLS 1.3 support

OPTIONAL LICENSES

- LIC-BACnet: BACnet Function
 - Connected air conditioning units can be monitored and operated not only from the existing web browser or the AE-C400A/AE-C50A's LCD, but also from the building management system using the BACnet® communication protocol. See LIC-BACnet Data Sheet for more information.
- LIC-Charge: Energy Allocation
 - The apportioned electricity billing function is an electric energy apportionment system that apportions electric energy using input from electricity meters with a pulse generator function. The respective amounts of electric energy can be apportioned based on the operating status and capacity of each tenant. See LIC-Charge Data Sheet for more information.

SPECIFICATIONS

- Supports dual set point functionality (connected equipment dependent)
- Displays:
 - CITY MULTI® compressor speed and hi/low pressure
 - Indoor unit free contact input/output status
 - Space temperature and humidity (from Smart ME or AI controller)
 - Error code (Error codes are able to be emailed automatically to specified recipients)
 - 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
- CN5 External input/output signals can be used for batch operations such as Start/Stop, Energy Peak Cut, and Emergency Stop (requires PAC-YG10HA, see app not 3006 for Life Safety)
- CN6 External Output for refrigerant leak buzzer (requires PAC-YG10HA)
- Pulse signal input can obtain watt-hour meter, billing data and energy management data based on the cumulative number of pulse signal pulse signals directly input from a metering device. (requires PAC-YG60MCA-J)
- 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)
 - 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- and 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 of 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)
- Memory back up via USB (universal serial bus)
- Memory back up via LAN (Local Area Network) port

AE-C400A - SPECIFICATIONS, CONT.

AE-C400A CENTRALIZED CONTROLLER

Item	Specifications		
Power Supply	Rated input		100–240 VAC ± 10%; 50/60 Hz Single-phase
	Power Consumption		22W
Connectivity			M-NET, 100BASE-TX LAN, RS-485 (for watt-hour meter - Modbus RTU), Photocoupler input (4 inputs x2), Transistor output (2 outputs x 2) (sink type)
Ambient conditions	Temperature	Operating Range	0° C to +40° C (+32° F to +104° F)
		Storage Range	-20° C to +60° C (-4° F to +140° F)
	Humidity		30% to 90% RH (no condensation)
Weight			2.9 kg (7 lbs)
Dimensions (W x H x D)			12-1/16 × 8-5/16 × 2-27/32 in. (306 × 211 × 71.8 mm)
Installation conditions			Indoor only **To be used in a business office or similar environment

PC AND WEB BROWSER REQUIREMENTS

Item	Requirements	
PC	CPU	1 GHz or faster (2 GHz or faster recommended)
	Memory	4 GB or more
	Screen Resolution	1024 x 768 or higher recommended
	Supported OS	• Microsoft® Windows® 11 (64-bit) • Microsoft Windows 10 (64-bit) • Mac OS® (for web browser use only)
	Operating Environment	• .NET Framework 4.8 or higher
	Browser	• Microsoft Edge® • Google Chrome™ • Safari®
	USB	• 1 port or more (for data import / export)
	LAN port	• 100Base-TX or higher
	Microsoft® Excel®	• Microsoft Excel 2016 32-bit • Microsoft Excel 2019 32-bit • Microsoft Excel 2021 32-bit

Note: Registered trademarks

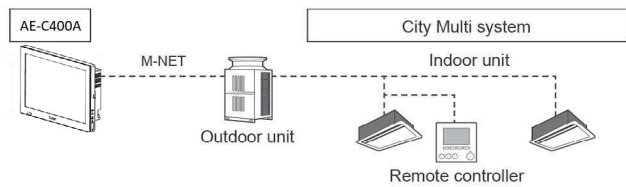
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Note: Company name or product name that is described in this manual may be a trademark or a registered trademark of each company

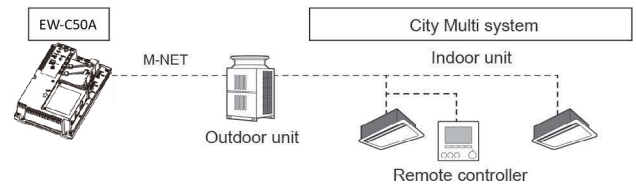
MODEL: AE-C400A - SYSTEM CONFIGURATION

CONTROLLING 50 OR FEWER UNITS OF EQUIPMENT

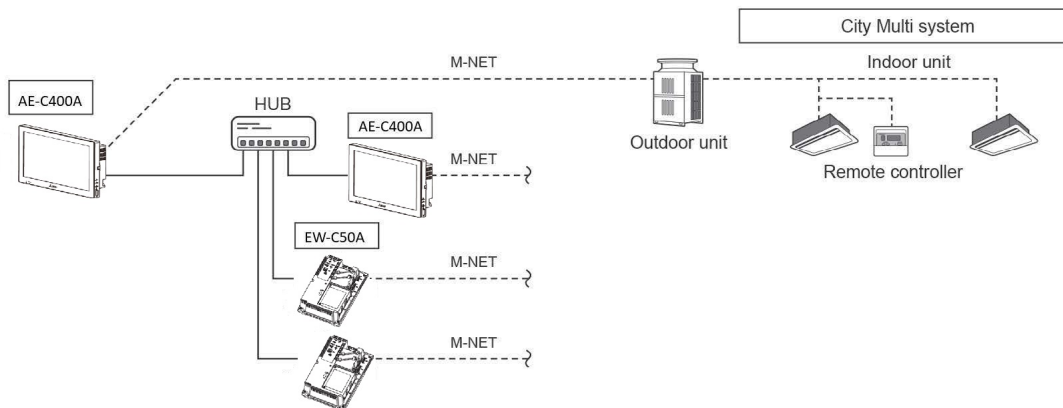
1. AE-C400A



2. EW-C50A



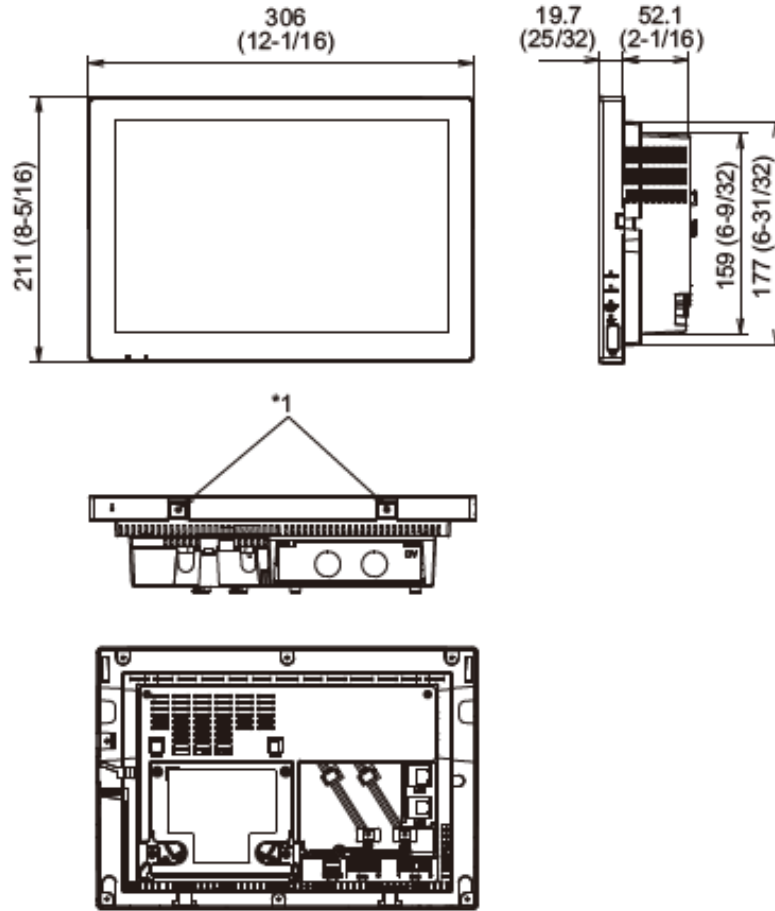
CONTROLLING MORE THAN 50 UNITS OF EQUIPMENT



AE-C400A - DIMENSIONS

[1] Controller

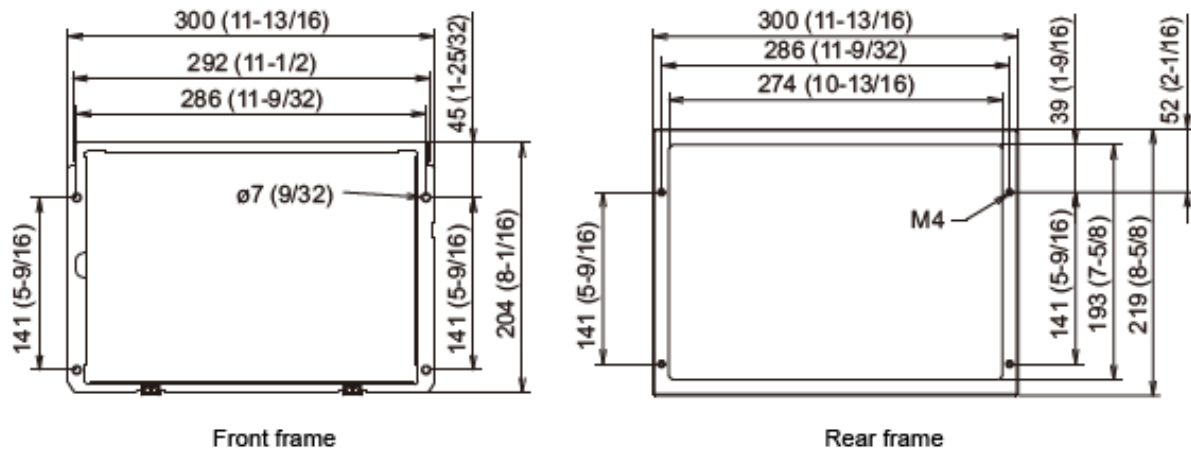
Unit: mm (in)



*1 Roundhead screw (M3 x 6)

[2] Mounting plate

Unit: mm (in)



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