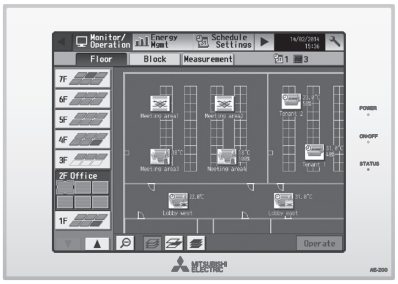
CONTROLLER

3-3. Centralized controller [AE-200E/AE-50E]



Dual Set Point

A. The use of AE-200E/AE-50E combined with AHC will allow the use of external signal, making it possible to use integrated control of air conditioning systems including third-party HVAC products.

B. The centralized controller of AE-200E combines Web function, which enable the air conditioner system management on a PC browser screen. *1
The management even carried out at a long distance place via public telephone line or internet.

*1 Microsoft® Internet Explorer 11.0
Microsoft® Edge
Safari 7
Google Chrome™

C. Together with PI or DIDO controller, many optional functions like "Charging", "Peak-cut", "Energy saving", "General equipment management", "Scheduling" etc, can be carried out.
Details, please refer to sections of PI and/or DIDO controller.

D. One AE-200E can control maximum 50 units (including Lossnay). Up to 200 units (including Lossnay) can be controlled from one AE-200E connected with three or four expansion controllers (AE-50E/EW-50E).
Up to four expansion controllers can be connected to one AE-200E with Ver.7.2 or later. When four expansion controllers are connected, the air conditioning units cannot be connected to AE-200E.

E. Taking advantage of AE-200E's Web functions, alarming E-mail containing address and error code can be sent to appointed E-mail address upon any fault happen at the air conditioner system.
This could release standby personnel and save operation cost.

F. AE-200E/AE-50E features a 10.4 color LCD touch panel. The settings for air conditioning units can be changed by touching the corresponding icons on the display.

G. The interlock-control option enables interlocked operations of air conditioning unit groups and the general equipment groups, based on the changes of status in the ON/OFF, Mode, or Error signals.(Can be set from the Web browser only)

■ Functions

□:Each unit ○:Each group ●:Each block
△:Each floor ◎:Collective ×:Not available

Item	Description	Operations	Display
ON/OFF	ON and OFF operation for the air conditioner units	○◎△●	○◎
Operation mode switching	Switches between several operation modes depending on the air conditioning unit. Air conditioning unit: Cool/Dry/Auto(*)/Fan/Heat Lossnay unit: Heat Recovery/Bypass/Auto CAHV, CRHV, Air To Water (PWFY) units: Heating, Heating ECO, Hot Water, Anti-freeze, Cooling(**) * Auto mode is for CITY MULTI R2- and WR2-Series only. ** Only PWFY	○◎△●	○
Temperature setting	The temperature can be set within the following range. Cool/Dry: 19°C (67°F) - 35°C (95°F) [14°C (57°F) - 30°C (87°F)] Heat: 4.5°C (40°F) - 28°C (83°F) [17°C (63°F) - 28°C (83°F)] Auto (single set point): 19°C (67°F) - 28°C (83°F) [17°C (63°F) - 28°C (83°F)] Auto (dual set points) [Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode. * The temperature ranges that can be set vary depending on the model. Values in parentheses "( )" are in cases where the middle-temperature is used on PDFY, PEFY-VML/VMR/VMS/VMH-by setting DipSW7-1 to ON. Note: PEFY-P-VMH-E-F is excluded.	○◎△●	○
Sliding Temperature setting	This function shifts the preset temperature by the preset increment to reduce the temperature difference between the indoor and outdoor air temperatures during cooling operation. The maximum shifting temperature (±1°C, ±2°C, ±3°C, ±4°C) can be set for each group.	○	○
Night setback setting	This function helps keep the indoor temperature in the temperature range while the units are stopped and during the time this function is effective.	○	○
Fan speed setting	Models with 5 air flow speed settings: Hi/Mid-1/Mid-2/Low, Auto Models with 4 air flow speed settings: Hi/Mid/Low, Auto Models with 2 air flow speed settings: Hi/Low Fan speed setting (including Auto) varies depending on the model.	○◎△●	○
Air flow direction setting	Air flow direction angles, 4-angle or 5-angle Swing, Auto *1: Louver cannot be set. ※Air flow direction settings vary depending on the model.	*1 ○◎△●	○
Schedule operation	Annual/Weekly (5 types)/Today schedule can be set for each group of air conditioning units. Optimized start setting is also available. *2: The system follows either the current day, annual schedule, or weekly, which are in the descending order of overriding priority. Twenty-four events can scheduled per day, including ON/OFF, Mode, Temperature Setting, Vane Direction, Fan Speed, and Operation Prohibition. Five types of weekly schedule(Summer/ Winter/etc.) can be set. Settable items depend on the functions that a given air conditioning unit supports.	*2 ○◎△●	○
Permit/Prohibit local operation	Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). Air Direction, Fan speed, Timer *3: The settable items vary depending on the models.	○◎△●	*3 ○
Indoor unit intake temperature	Measures the intake temperature of the indoor unit. *8: Displays the ambient temperature of either the return air temperature sensor on the indoor unit or the temperature sensor on the remote controller, whichever is selected on the indoor temperature display mode selection.	×	*8 ○
Error	When an error is occurring on an air conditioner unit, the affected unit and the error code are displayed. *4: When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen shows the abnormal unit by flashing it. The error monitor screen shows the abnormal unit address, error code and source of detection. The error log monitor screen shows the time and date, the abnormal unit address, error code and source of detection.	×	*4 □◎
Test run	This operates air conditioner units in test run mode.	○◎△●	○
Ventilation equipment	The interlocked system settings can be performed by the master system controller. When setting the interlocked system, you can use the ventilation switch to switch the free plan Lossnay settings between "Hi", "Low" and "Stop". When setting a group of only free plan Lossnay units, you can switch between "Normal ventilation", "Interchange ventilation" and "Automatic ventilation". *5 When setting ventilation interlock with Mr.Slim units, the air conditioning and interlocked ventilation icon will display ON even when the interlocked Lossnay is operating by itself. (This will occur when used with the following M-NET adapter: PAC-SF48/50/60/70/80/81MA-E)	○◎△●	*5 ○
External input/output	By using accessory cables you can set and monitor the following: Input: By level signal: "Batch ON/OFF", "Batch emergency stop" By pulse signal: "Batch ON/OFF", "Enable/disable local remote controller" Output: "ON/OFF", "Error/Normal" *6: Requires an external I/O cable (PAC-YG10HA-E; sold separately) and a commercially available external power supply.	*6 ◎	*6 ◎
Temp range limit settings	Sets the temperature range for the local remote controllers. *7: The item and range that can be operated or monitored depend on the function of the indoor unit.	*7 ○	○
AHC status	Displays the status of input and output ports of each Advanced HVAC CONTROLLER (AHC).	×	□
Free Contact status	Displays the input/output status of the free contacts on the indoor units.	×	□
Measurement	Displays the temperature, humidity, and the reading of the watt-hour meter.	×	□
Outdoor Unit Status Monitor	Monitor the current outdoor unit status Data: Frequency (Compressor), high/low pressure (outdoor unit)	×	□
Energy Use Status	On the Energy Use Status screen, the energy-control-related status, such as electric energy consumption, operation time, and outdoor temperature, can be displayed in a graph. Operators can check the detailed status of given indoor units by specifying the date to display the data per group, block, or unit address.	×	□○●
Filter sign reset/ Filter sign	Filter sign can be reset for each group or block of indoor units. Filter sign indicates that the filter on the units in a given group is due for cleaning.	□◎	□○●
Interlock setting	Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment). (AE-200E/AE-50E will execute interlocking control depending on the interlocked setting.)	○	○
Data back-up (PC) or USB memory	The initial setting data, operation data (charge parameter, power consumption data) can be stored in the PC, or USB memory.	◎	–
Apportioned electricity charge function	The amount of power consumed by the air conditioners is calculated with the use of AE-200E. The calculated data can be output to the PC via USB memory or LAN, and the charge report can be created with the use of the designated charge calculation tool.	○	○
BACnet® connection	CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet®.	○	–
Integrated control	A maximum of 40 units of AE-200E, AE-50E, and EW-50E combined can integrally be controlled from a PC, a tablet PC, or a smartphone, allowing for the controlling and monitoring of the air-conditioning units connected to it.	○●△◎	○●△◎

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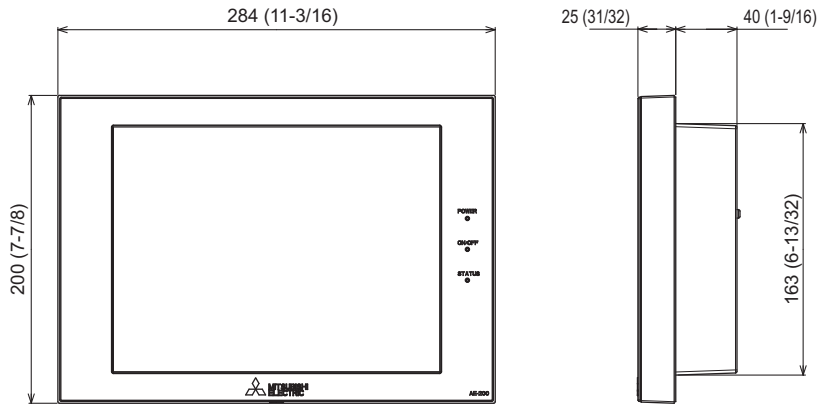
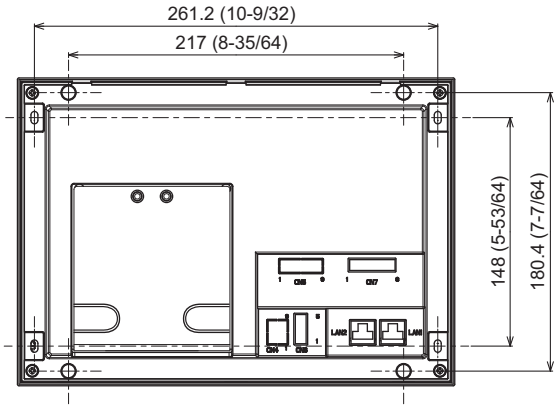
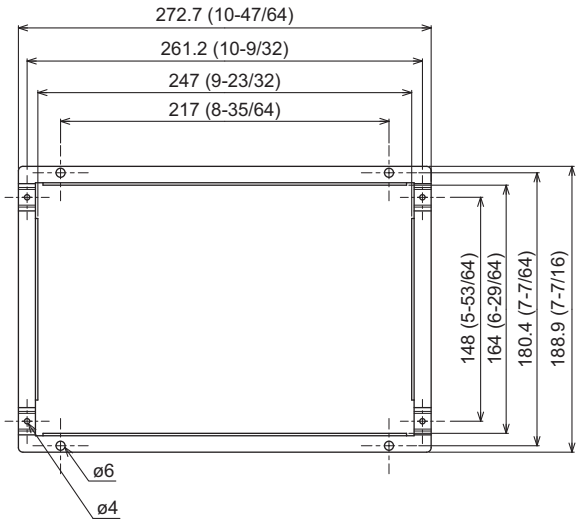
NOTE: Depending on the versions of AE-200E, some of the functions may not be available.

■ External dimension

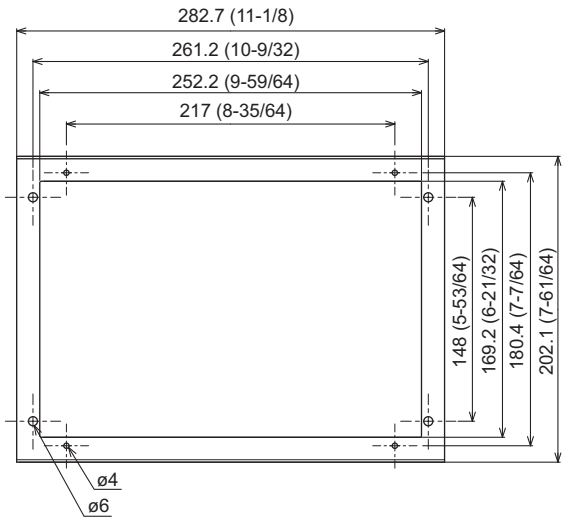
Unit: mm (in)







A type installation plate



B type installation plate