

AE-200E

WEB SERVER - 3D TOUCH CONTROLLER CENTRALISED CONTROLLER



WEB SERVER – 3D TOUCH Controller centralised controller (AE-200)

The new WEB Server 3D TOUCH Controller centralised controller is an evolution of the AG-150A, the first centralised controller on the market to introduce typical BMS functions such as installation layout map display modes. While based on the same technology as its predecessor, the new controller offers even more flexibility for compatibility with future applications.

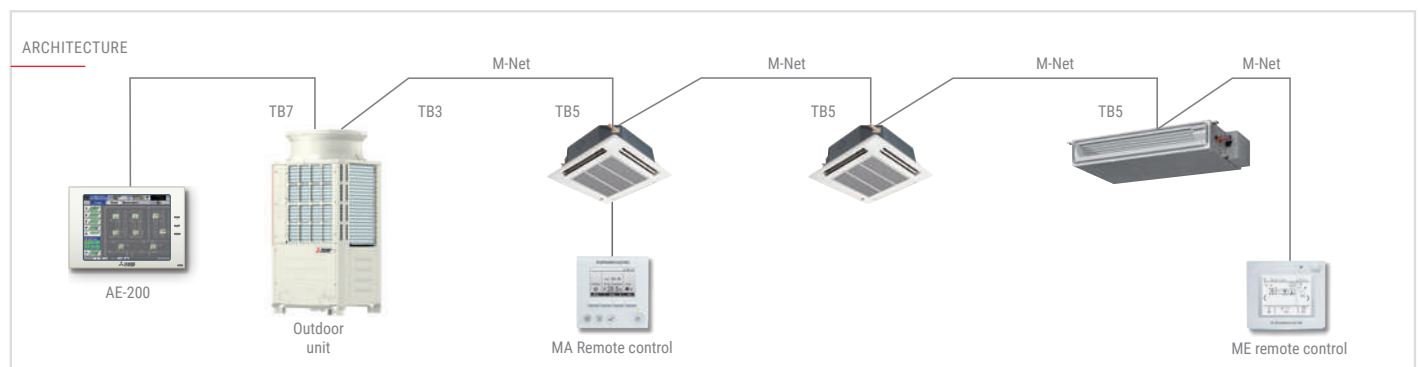
3D TOUCH Controller represents the state of the art in Mitsubishi Electric controller technology, and boasts class beating functions and features.

- Generously sized backlit 10.4" SVGA colour touch screen with graphic layout display function.
- Built-in 240V AC 50 / 60 Hz power supply.
- Stand-alone configuration: for managing up to 50 indoor units in total.
- Extended configuration: for managing up to 200 indoor units (with three EW-50 expansion modules)
- Individual or collective control of groups, blocks or zones.
- Ethernet interface for connection to BMS supervisor systems.

- Integrated WEB server software for management using Internet Explorer®.
- Integrated 2 GByte SD memory card for storing system data
- Power consumption data for billing downloadable via internet connection.
- BACnet® connection
- Complete support for all advanced RMI platform functions for energy consumption monitoring and for multi-installation and multi-user management.
- Temperature setpoints viewable and settable with a resolution of 0.5°C.
- Energy saving functions: Maintenance temperature, Sliding temperature, Optimised start, Dual Setpoint.
- M-Net interfacing with Ecodan package Hot Water Heat Pump systems (CAHV and CRHV).
- E-mail fault notification function.
- Complete support for all advanced RMI platform functions for energy consumption monitoring and for multi-installation and multi-user management.
- **RMI READY** Complete support for all advanced RMI platform functions for energy consumption monitoring and for multi-installation and multi-user management.

Technical specifications

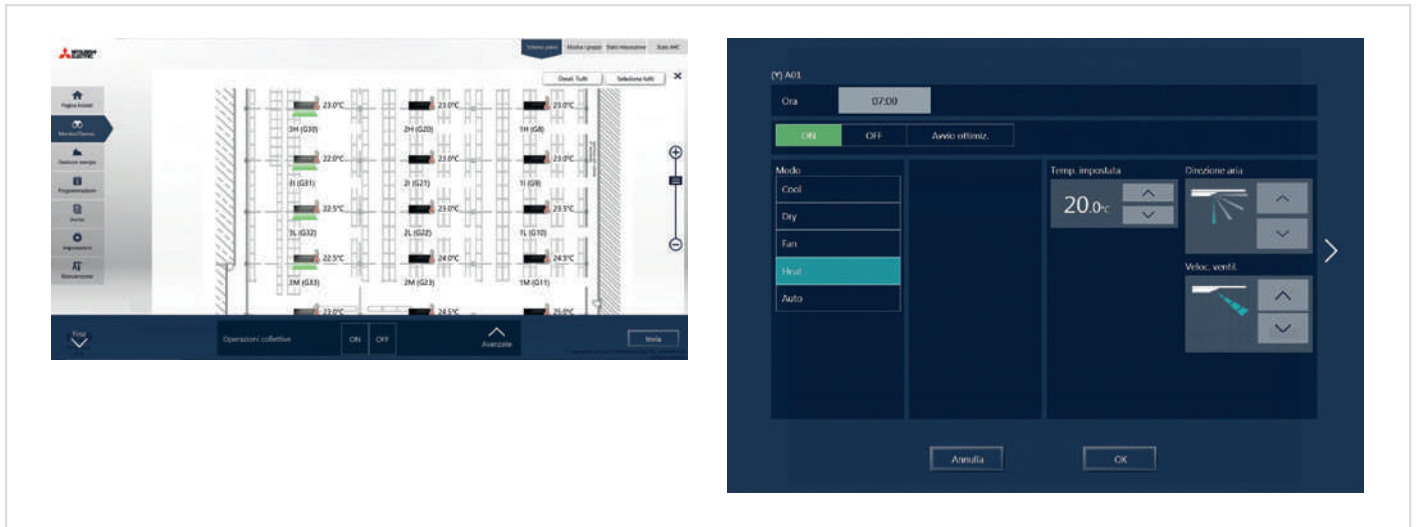
MODEL	DIMENSIONS (H X L X W)	WEIGHT	ELECTRIC POWER SUPPLY	M-NET UNIT POWER CONSUMPTION
AE-200E	200 x 284 x 65 mm	2.3 kg	100-240 VDC (M-Net connection)	4 M-Net unit



Graphic Layout Display Function

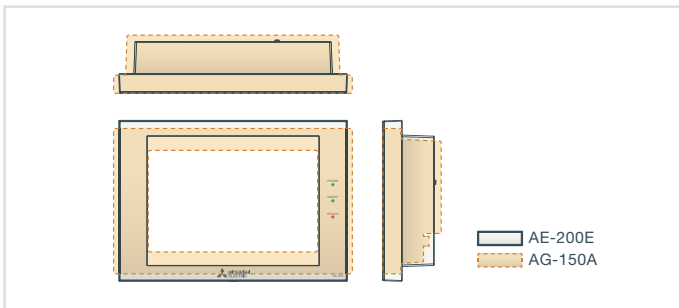
The 3D TOUCH Controller boasts a generously sized, backlit 10.4" colour SVGA touch screen allowing the user to interact comfortably, easily and intuitively with the system.

Temperatures are viewable and settable with a resolution of 0.5°C, while a Dual Set-Point function is also available.



Power and flexibility in a compact device

While measuring practically the same as the previous AG-150, the new 3D TOUCH Controller WEB Server centralised controller offers a larger screen area, greater processing power and expandable flexibility for future applications.



RMI Ready



The WEB Server **3D TOUCH Controller** centralised controller performs the crucial role of acquiring and monitoring data via the M-Net data transmission bus linking all the components of the VRF CITY MULTI, Mr. Slim or Residential system.













A router (available as wired ADSL or 3G Mobile versions) creates a secure, protected communication channel with the RMI Server. The modular flexibility of the RMI Server makes it possible to store enormous volumes of data, which is acquired, processed and archived for access from portable devices.

This infrastructural complexity, combined with superior processing, management and security capabilities, is encapsulated in an extremely user friendly concept, to help users optimise the energy usage of their systems.





Key Technologies

																		
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FUNCTION	DESCRIPTION	SETTING	DISPLAY
Number of units controllable	Up to 50 units/50 groups.		
ON/OFF	Switch the units in the installation on or off.	○ ○ △ ●	○ ○
Operating mode	Switch between the different operating modes available, which depend on the units installed. Air conditioning units: Cool./Dehum./Auto(*)/Vent./Heat. Lossnay units: Heat recovery/Bypass/Auto CAHV/CRHV units, Air-Water units (PWFY): Heat., ECO Heat., Hot Water, Antifreeze, Cool. (**). *Auto mode only available for CITY MULTI R2 and WR2 units **For PWFY units only.	○ ○ △ ●	○
Temperature setting	Used to modify temperature settings. The settable temperature range depends on the model of indoor unit installed.	○ ○ △ ●	○
Fan speed setting	Models with 4 settable fan speeds: Hi/Mid-2/Mid-1/Low. Models with 3 settable fan speeds: Hi/Mid/Low. Models with 2 settable fan speeds: Hi/Low. The settable fan speeds and modes (including Auto mode) depend on the model of indoor unit.	○ ○ △ ●	○
Air flow direction setting	Sets the direction/mode of the air flow (with up to 5 directions and with Swing and Auto modes).	○ ○ △ ●	○
Programme	For programming daily/weekly/seasonal weekly/annual timer schedules. The following functions and modes are settable: ON/OFF, operating mode, temperature setting, disable remote control, air flow direction.	○ ○ △ ●	○
Enable/disable local operations	The following remote control functions may be disabled from specific settings on the centralised controller: ON/OFF, select operating mode, set temperature, fan speed, air flow direction, reset filter indicator lamp.	○ ○ △ ●	○
Intake air temperature	Measures the intake air temperature only when the indoor unit is on.	×	○
Error	In the event of an error concerning a unit, the error code and the unit involved are displayed.	×	□ ○
Test run	Activates the air conditioning unit in Test run mode.	○ ○ △ ●	○
Ventilation interlock	The Lossnay ventilation unit starts automatically when the relative interlocked indoor unit starts.	○ ○ △ ●	○
External Outputs/Inputs	Allows the following activities to be configured and monitored by using an optional adapter for external input and output signals (PAC-YG10HA-E): Input: Level signal: "ON/OFF", "Emergency shut-off". Impulse signal: "ON/OFF", "Enable/disable local remote control". Output: "ON/OFF", "Error/Normal"	○	○
Energy management	Bar graphs: Indoor unit electric power usage; vent. Time; Thermo-ON time (TOTAL, Cool., Heat.), for hourly, daily and monthly values. Line graphs: External temperature; ambient temperature, set temp. (heat., cool.) Input from PAC-YG63MCA and temperature from AHC	×	□ ○ ●
Advanced control HVAC (AHC)	The status of the AHC system can be monitored only.	×	○
ME remote control	The status of the sensor incorporated in this controller may be monitored.	×	○
Smartphone/Tablet	AE-200/EW-50 controllers may be monitored and controlled via browser on iOS and Android OS devices.	○	○
New web design	New web interface developed to be even more user friendly.	○ ○ △ ●	○
Initial configuration software	Initial configuration may be set up with no connection to the AE-200/EW-50 controller.	×	×
Consumption apportioning	The AE-200 controller is capable of calculating consumption values for separate users (requires PRO-3DCHARGE or RMI CHARGE consumption apportioning system).	●	□ ●
BACnet® communication	The ASN/ASHRAE 135-2010 (ISO16484-5) protocol is supported and approved by BTL.	○	×

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