



TECHNICAL SUBMISSION

Hale Spa, Manchester



Client	FG Mechanical
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Document ref no	ACTS04
Zircon Ref No:	4135_ACTS04_Controls
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Amendments

Zircon Air Conditioning

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Location	Model	Quantity	Description
All Units	PAR-U02MEDA-K	17	Remote Controller
TBC	AE-200E	1	Centralised Controller
TBC	Procon-Melco BEMS	1	Melcotel

Zircon Air Conditioning

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The **AE-200E** is a large 10.4" touch screen centralised controller with simple intuitive operation and control over M-NET network.

Key Features

- 10.4" full function touch screen
- Centralised controller
- Monitor and control up to 50 indoor units (or up to 200 indoor units with EW-50Es)
- Monitor and control general equipment
- Energy monitoring, load shedding
- Web based controller
- Onboard HTML5 web browser
- Optional direct BACnet connection

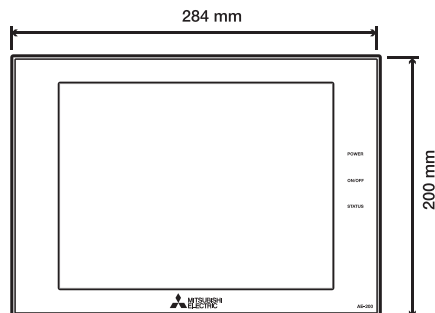


CENTRALISED CONTROLLER		AE-200E
Description	10.4" Touch Screen Controller	
Connect to	M-NET Network	
Max Number of Units	50 and 4 Pulse Meters	
Compatibility	M Series, Mr Slim, City Multi, Lossnay and Ecodan CAHV	
Power Supply	220-240v, 50Hz	
Dimensions (mm) (WxDxH)	283 x 64 x 199	
Control	On/Off	✓
	Mode	✓
	Setpoint	✓
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
Monitor	On/Off	✓
	Mode	✓
	Setpoint	✓
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
	Fault Codes	✓
	Room Temperature	✓
Weekly Schedule	✓	
Annual Schedule	✓	
Night Set Back	✓	
Web Pages	✓	
Optimised Start	✓	
Automatic Setpoint Adjustment	✓	
Load Shedding	✓	
Occupied / Unoccupied Settings Reset	x	
Remote Monitoring with M2M	✓	
Simple Energy Monitoring	✓	
Advanced Energy Monitoring	✓	

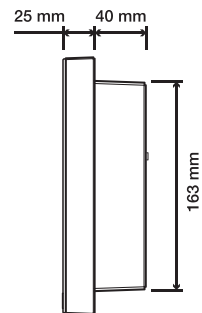
✓ = Yes, x = No, - = Not applicable.

DIMENSIONS

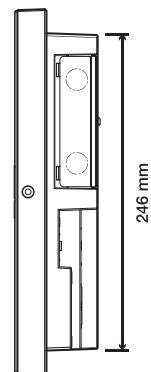
Front View



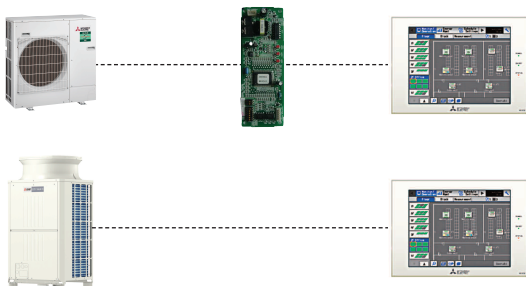
Side View



Upper View



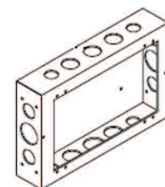
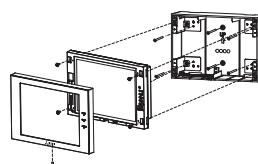
SYSTEM DIAGRAM



OPTIONS

PAC-YG82TB

PAC-YG84UTB



Description	AE-200E Plastic Wall Mounted Box	AE-200E Metal Wall Mounted Box
Compatibility	AE-200E	AE-200E
Dimensions (mm) (WxDxH)	282 x 77 x 198	380 x 90 x 280



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows: R410A (GWP:1975), R32 (GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).



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Effective as of September 2017



The MELCOTEL2 provides connection of up to 200 City Multi indoor units to communicate via centralised controllers AE-200E and EW-50E. It is ideal for hotel energy save solution applications and is supplied with an intuitive display screen for use by reception / management.

Key Features

- Monitor and control up to 200 indoor units
- Dedicated hotel interface
- Key card and non key card integration
- Automatic setpoint adjustment
- Occupied / unoccupied settings reset



Air Conditioning | Heating
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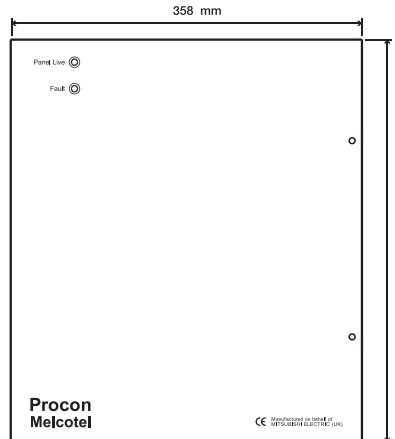


SOLUTION INTERFACE		MELCOTEL2
Description		AE-200E / EW-50E Hotel Interface and display
Connect to		AE-200E and EW-50E*1
Max Number of Units		200
Compatibility		City Multi
Power Supply		220-240v, 50Hz
Dimensions (mm) (WxDxH)		350 x 80 x 400
SMS/GPRS Capabilities		x
Ethernet Capabilities		x
SIM Card Provided		x
Inputs		x
Outputs		x
Control	On/Off	✓
	Mode	✓
	Setpoint	✓
	Fan Speed	x
	Air Direction	x
	Permit/Prohibit	x
Monitor	Filter Sign	x
	On/Off	✓
	Mode	✓
	Setpoint	✓
	Fan Speed	x
	Air Direction	x
Weekly Schedule	Permit/Prohibit	x
	Filter Sign	x
	Fault Codes	x
	Room Temperature	✓
	Weekly Schedule	x
	Annual Schedule	x
Night Setback	Night Setback	✓
	Web Pages	x
	Optimised Start	x
	Automatic Setpoint Adjustment	✓
	Load Shedding	x
	Occupied / Unoccupied Settings reset	✓
Simple Energy Monitoring		x

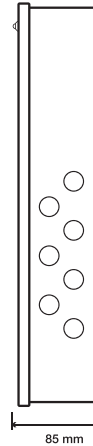
Note: *1 First centralised controller MUST be AE-200E
✓ = Yes, x = No, - = Not applicable.

DIMENSIONS

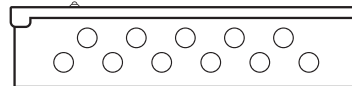
Front View



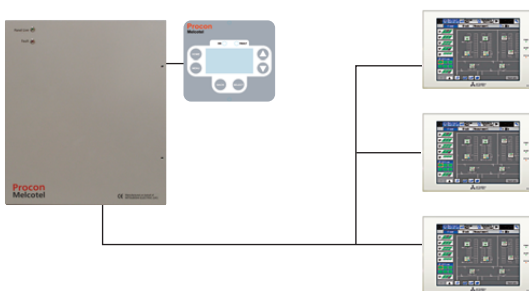
Side View



Top View



SYSTEM DIAGRAM



Note: Power supply by direct 230v AC mains power. No additional power supply required.



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The PAR-U02MEDA is a MNET back lit touch screen remote controller. It includes a built in PIR sensor allowing the air conditioning to be switched on/off automatically when a room is occupied and can also set the air conditioning in night set back when the room is unoccupied.

This controller is compatible with City Multi as standard and M Series / Mr Slim using a MNET adapter.

Key Features

- Touch screen MNET Controller
- Night set back, scheduling, setpoint limitation
- Built in Occupancy/Brightness sensor
- Back Light
- 0.5°C Set Point adjustment
- Dual Set Point



Air Conditioning | Heating
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Controls

Product Information

PAR-U02MEDA Remote Controller

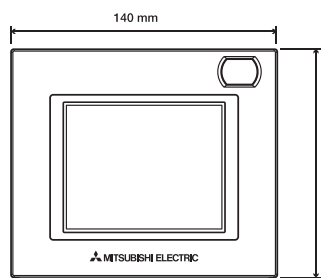
Making a
World of
Difference

REMOTE CONTROLLER		PAR-U02MEDA
Description	Touch Remote Controller	
Connect to	MNET Network	
Max Number of Units	16	
Compatibility	City Multi, Mr Slim and M Series via A2M Adaptor	
Power Supply	-	
Dimensions (mm) (WxDxH)	140 x 25 x 120	
Control	On/Off	✓
	Mode	✓
	Setpoint	✓ (0.5°C)
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
Monitor	On/Off	✓
	Mode	✓
	Setpoint	✓ (0.5°C)
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
	Fault Codes	✓
	Room Temperature	✓ (0.5°C)
Weekly Schedule	✓	
Annual Schedule	✓	
Night Set Back	x	
Web Pages	x	
Optimised Start	Weekly	
Automatic Setpoint Adjustment	✓	
Load Shedding	✓	
Occupied / Unoccupied Settings Reset	x	
Remote Monitoring with M2M	x	
Simple Energy Monitoring	x	
Advanced Energy Monitoring	x	

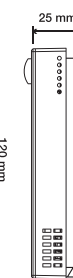
Note: ✓ = Yes, x = No, - = Not applicable.

DIMENSIONS

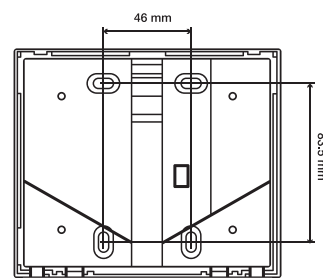
Front View



Side View



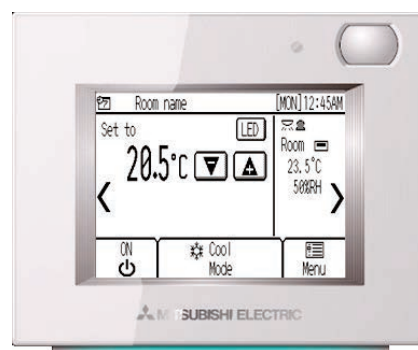
Back View



Top View



SYSTEM DIAGRAM



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