

MELCOBEMS MINI (A1M+)

BEMS Interface

The **MELCOBEMS MINI (A1M+)** connects individual indoor/outdoor units to third-party BMS platforms through a single interface.

Supporting both BACnet and Modbus, it delivers a cost-effective and reliable interface for monitoring HVAC systems.

Key Features & Benefits:

- **Simplified BMS Integration** - Provides an easy Modbus and BACnet solution for seamless monitoring of HVAC equipment.
- **One-to-One Connection** - Enables individual monitoring and control of indoor and compatible outdoor units, offering a cost-effective way to capture operational data.
- **User-Friendly Configuration** - Supports BACnet and Modbus/IP with hassle-free setup through a built-in webpage accessible from a single onsite location.
- **Improved Efficiency** - High-speed data transfer via BACnet IP over UDP and Modbus TCP/IP ensures quicker access to service and maintenance data.
- **Flexible Connectivity** - BACnet MS/TP or Modbus RTU option available when IP networks are not, making it suitable for a wide range of applications.
- **Future-Ready** - Easy software updates via Ethernet (local network) allow for straightforward upgrades and long-term reliability.
- **Smart Temperature Adjustment** - Compares readings from a BMS-connected third-party room temperature sensor and the indoor unit's return air sensor, automatically adjusting the setpoint to ensure more accurate temperature control and improved comfort.
- **Third-Party Sensor Display** - By showing third-party room temperature sensor data on the wall controller, the A1M+ eliminates mismatches between BMS and controller readings, improving accuracy and minimising unwanted user adjustments.
- **Secure & Standardised Installation** - DIN rail mounting option ensures professional wall installation and enhanced device security.

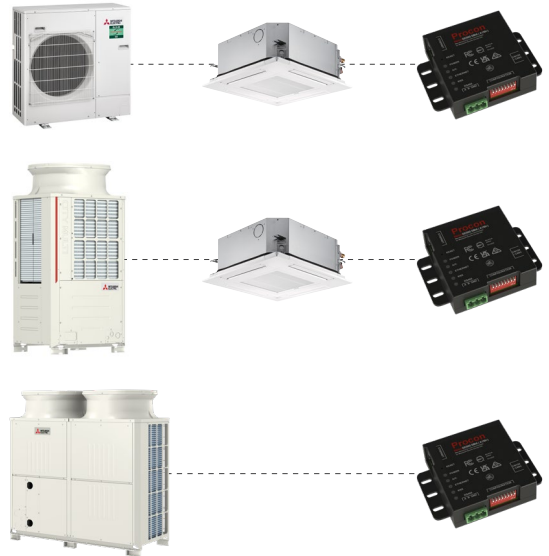




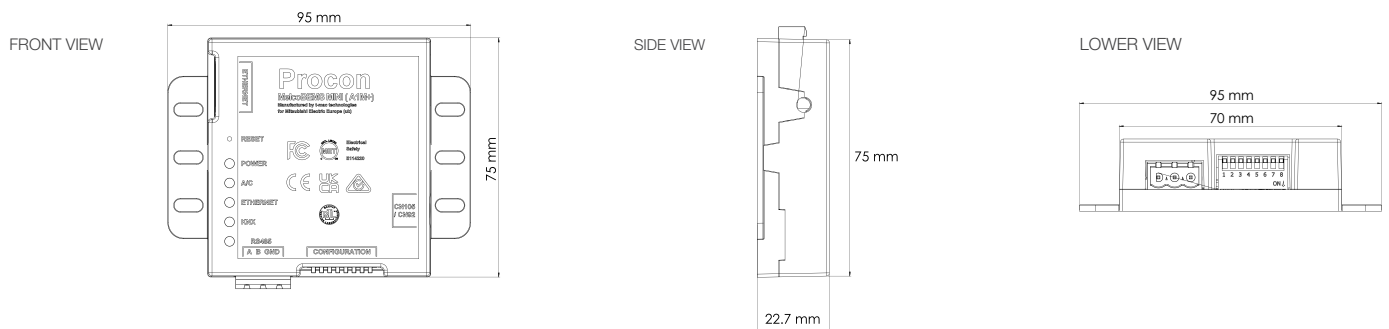
BEMS INTERFACE		MELCOBEMS MINI (A1M+)	
Description		Air to Air Splits Modbus/BACnet. Air (Water) to Water & Lossnay Modbus/BACnet	
Connect to		Indoor, Outdoor or Ecodan PCB	
Max Number of Units		1	
Compatibility		M Series, Mr Slim, City Multi, Ecodan FTC7/6/5/4, e-Series, Ecodan QAHV/QAHV/CRHV and Lossnay (LGH models)	
Power Supply		-	
Dimensions (mm) (WxDxH)		95 x 22.7 x 78.6	
Network		Modbus / BACnet IP / RS485 ¹	
BEMS Compatibility		Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, RDM	
Control	On/Off	Air to Air Splits and Lossnay	Air (Water) to Water
	Mode	DI	AI
	Setpoint	AI	AI
	Fan Speed	AI	-
	Air Direction	AI	-
	Permit/Prohibit	x	AI
	Filter Sign	DI	-
	On/Off	DO	DO
	Mode	AO	AO
	Setpoint	AO	AO
Monitor	Fan Speed	AO	-
	Air Direction	AO	-
	Permit/Prohibit	x	AO
	Filter Sign	DO	-
	Fault Codes	AO	AO
	Room Temperature	AO	AO
	Daily kW Energy	-	AO
	Monthly kW Energy	-	AO

Key: DI = Digital Input. DO = Digital Output. AI = Analogue Input. AO = Analogue Output.
Notes: ¹ Function only available on M Series, Mr Slim and City Multi. ² ETA end 2025.
 The MELCOBEMS can monitor indoor daily and monthly kWh when used in conjunction with AE-C400E, EW-C50E, PAC-YG60MCA on third party energy meters.

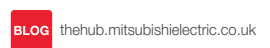
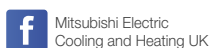
MELCOBEMS MINI (A1M+) SYSTEM DIAGRAMS



MELCOBEMS MINI (A1M+) DIMENSIONS



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Note: The fuse rating is for guidance only and 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), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of October 2025

