

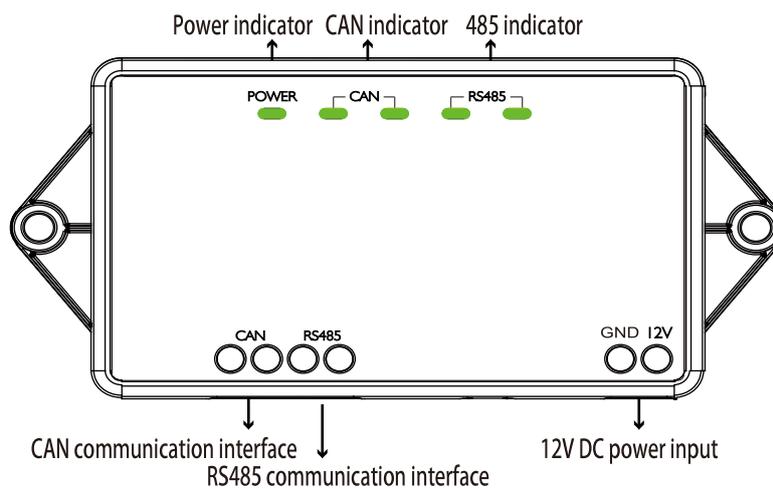
Modbus Gateway (Mini) ME30-24/E6(M)

Capacity: 128 sets of indoor unit (within 16 systems)

Protocol: Modbus RTU / Expansion port: No

It is generally used for small and medium-sized projects such as villas and apartment buildings. It is used for docking with BMS system or smart home systems. Since there is no I/O interface, the capacity is small, and it is a low-cost solution.

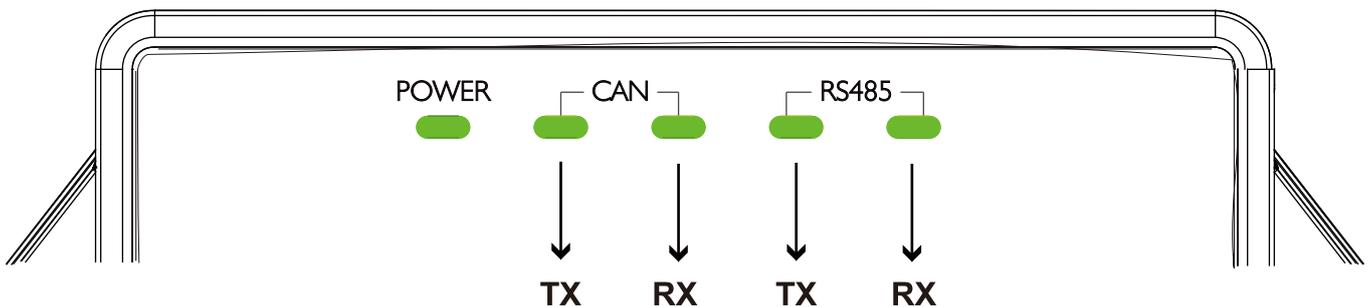
Model: ME30-24/E6(M)



Job Name:		Date:	
System Reference No.:			
Engineer Signature:			

CAN communication interface: It is connected to air conditioner through two-core connection wire, to realize communication between Modbus Gateway(Mini)and air conditioner.

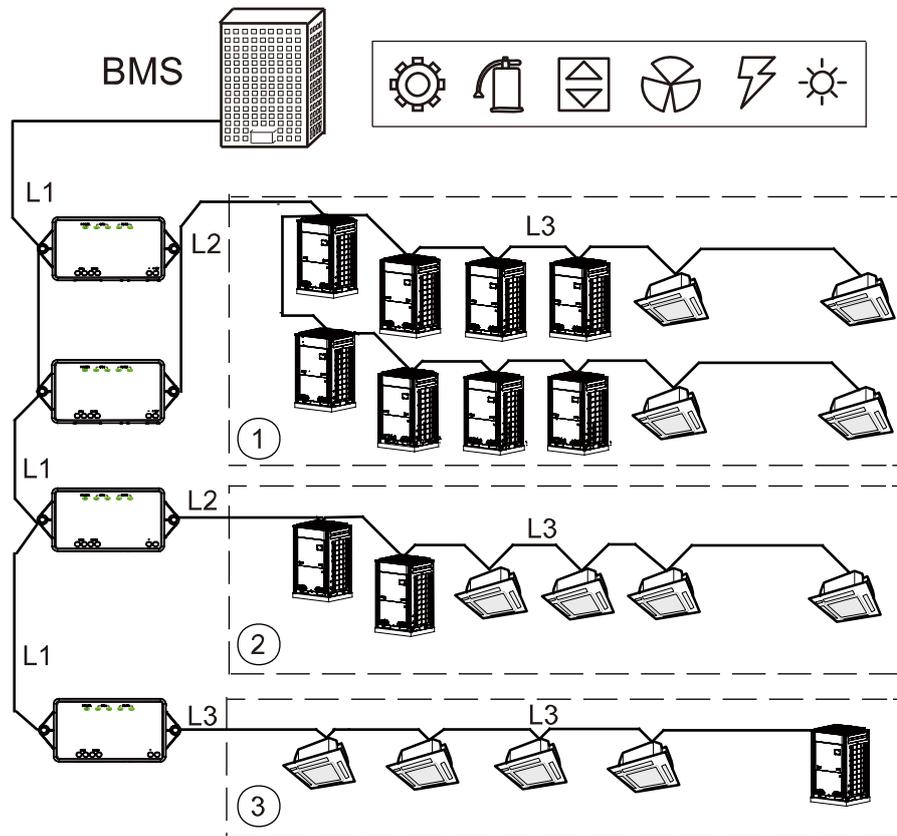
RS485 communication interface: It is connected to BMS through two-core communication cable, to realize communication between Modbus Gateway(Mini) and BMS or nearby Modbus Gateway(Mini).



LED indicators shown in the above figure are divided into two parts: status indicators (power) and communication indicators(CAN, RS485). Operation status of each indicator is shown in the following table.

CAN	TX	When the data is transferred to the equipment (e.g. air conditioner) connected with Modbus Gateway(Mini), it will flash.
	RX	When the data from the equipment (e.g. air conditioner) connected with Modbus Gateway(Mini) is received, it will flash.
RS485	TX	When the data is transferred to the Modbus bus, it will flash.
	RX	When the data from the Modbus bus is received, it will flash.
Power		When power supply of Modbus Gateway(Mini) is normal, it will be always on.

Topological Graph



Modbus bus: L1 shown in the figure is the Modbus bus.

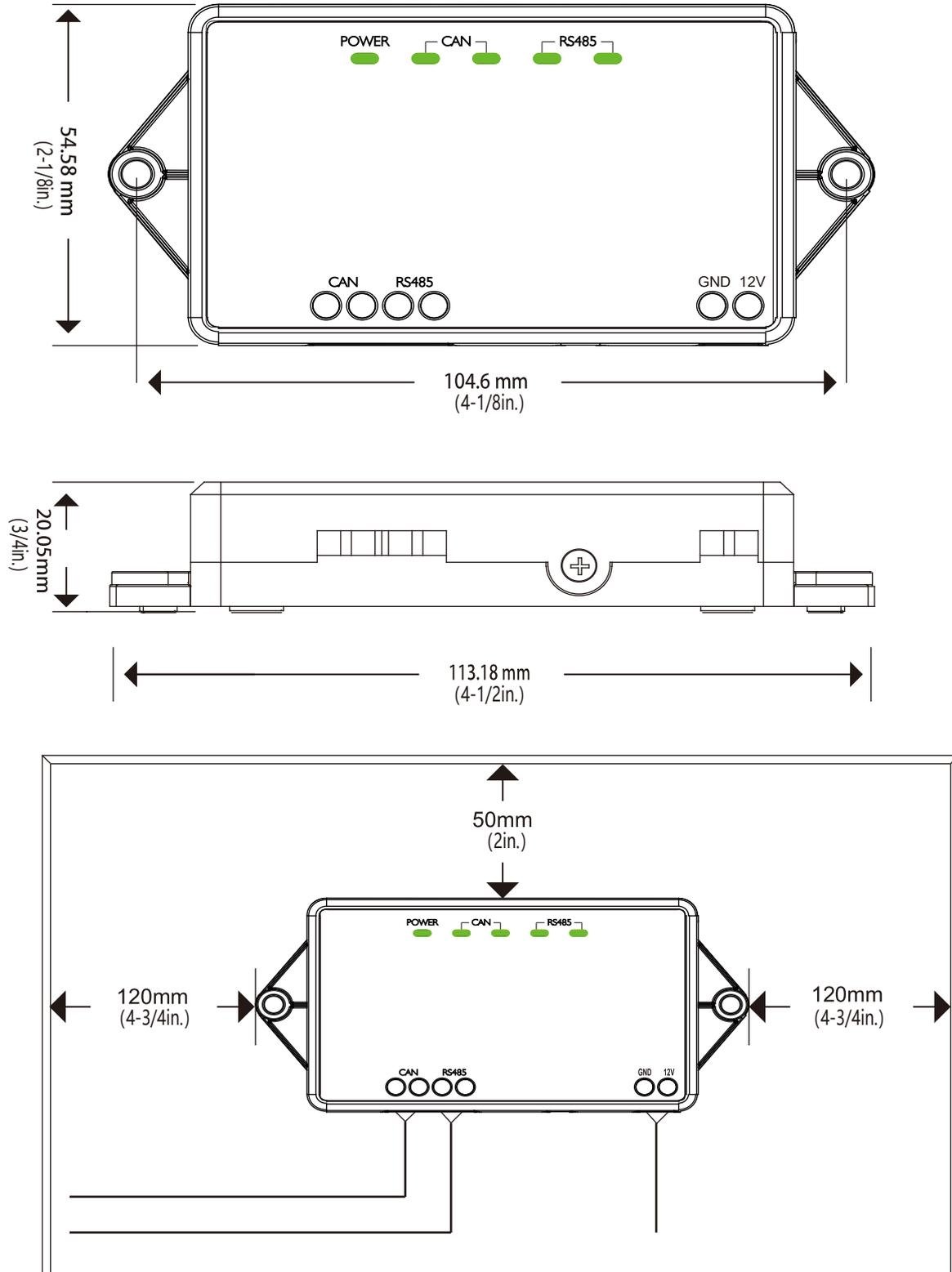
CAN1 network: network ③ shown in the figure is the CAN1 network, which is consist of Modbus Gateway(Mini) and all IDUs and ODUs of the system. One CAN1 network can be connected to maximum 80 IDUs. L3 shown in the network is CAN1 bus.

CAN2 network: network ① and ② shown in the figure is the CAN2 network, which is consist of Modbus Gateway(Mini) and main control ODU of the system. One CAN2 network can be connected to maximum 16 systems and 255 IDUs. If the system quantity exceeds 16 sets or IDU quantity exceeds 255 sets, it shall be divided into two CAN2 network. L2 shown in the figure is CAN2 bus.

System: One system consists of one set of outdoor unit (one set of outdoor units is a module group consisting of 1~4 modules, that is 1~4 outdoor units) and its connected indoor units.

Connectable unit quantity of Modbus Gateway(Mini): one Modbus Gateway(-Mini) can be connected to maximum 16 systems and 128 IDUs. If IDU quantity exceeds 128 sets, two Modbus gateways are needed.

Product Dimension



! Notice! All communication cables of Modbus Gateway(Mini) must be connected in series instead of in star mode.

