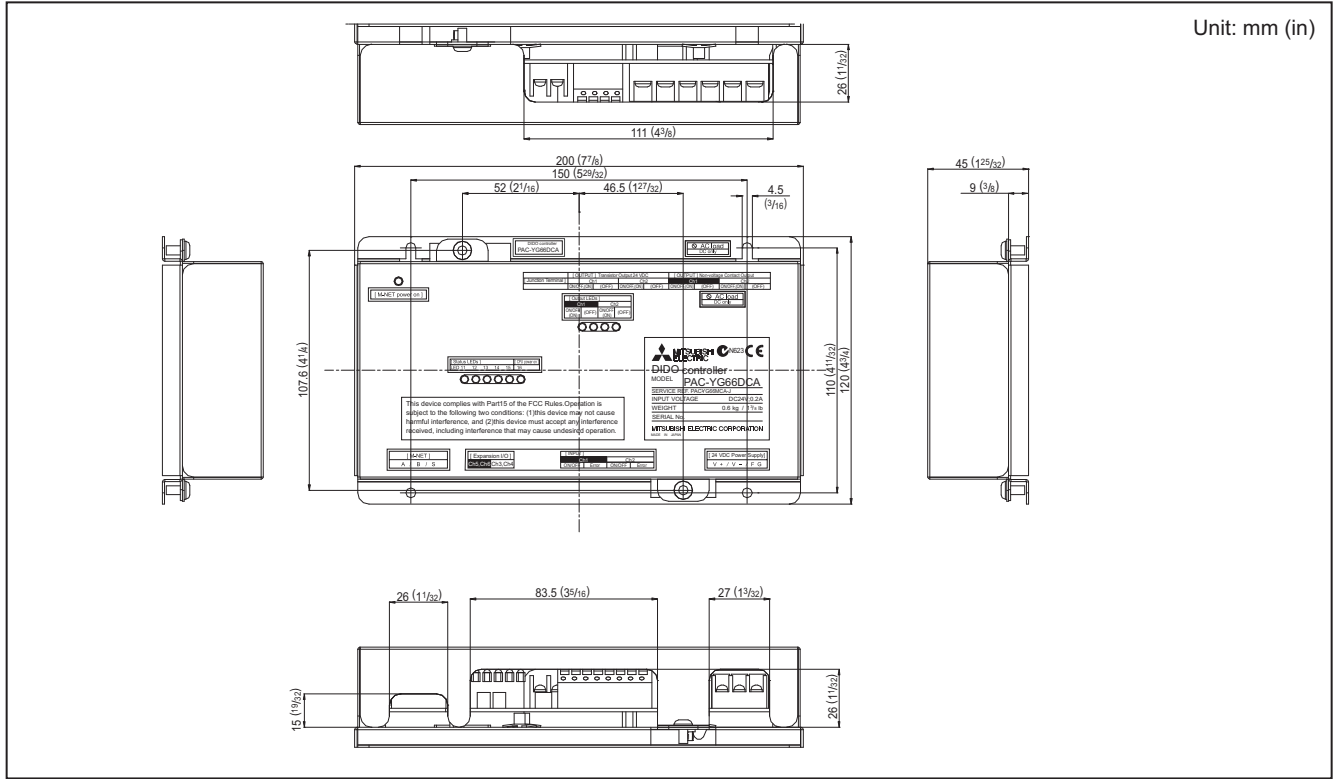


3-10. DIDO controller [PAC-YG66DCA]

The DIDO controller is used in combination with a AE-C400E/EW-C50E to operate general-purpose equipment, as well as to monitor operating and error status. It is equipped with two sets of standard terminals (Channels 1 and 2), and four sets of expansion connectors for the input/output terminals. Expansion cable is optional. Operation can be monitored or performed from the AE-C400E LCD. In addition, this device includes a function that interlocks M-NET devices such as indoor units, general equipment, etc.

External Dimensions



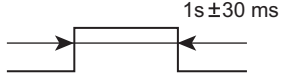
**CAUTION**

Usage Restrictions

- Mitsubishi Electric does not take financial responsibility for damages caused by issues beyond our control or special circumstances (predicable or unpredictable); and secondary or accidental damages, and damages to other objects. We also do not take financial responsibility for opportunities lost as a result of device failure, or electrical power failure at the end-user site.
- Mitsubishi Electric does not take financial responsibility caused by end-users' requests including, but not limited to, device testing, startup, readjustment, and replacement.
- Do not use this device in disaster prevention, security, or "critical to life" applications.
- It is recommended to provide an external switch for general-purpose equipment in case of a failure of the DIDO controller or a peripheral part.

## 1. Specifications

## (1). Device Specifications

Item	Rating and Specification					
Power Supply	24 VDC $\pm$ 10%: 5 W (*1)				Screw terminal block (M3) (*8)	
Interface	M-NET communication		17 to 30 VDC (*2)		Screw terminal block (M3) (*8)	
	Standard	Output (*3)	ON/OFF, (ON) (*4)	Non-voltage Relay contact (2)	Applied load MAX: 24 VDC, 5 W MIN: 5 VDC, 2 mW * AC loads cannot be connected.	Screw terminal block (M3.5) (*8)
			(OFF) (*4)	Transistor (2)	24 VDC 40 mA or less (*5)	Screwless terminal block
		Input	ON/OFF	Non-voltage a contact (2 each)	24 VDC 1 mA or less (*6)	Screwless terminal block
			Error/Normal			
	Expansion	Output	ON/OFF, (ON) (*4)	Transistor (4 each)	24 VDC 40 mA or less (*5)	9 pin connector
			(OFF) (*4)			
	Input	ON/OFF	24 VDC input (4 each)	24 VDC 1 mA or less (*7)	9 pin connector	
		Error/Normal				
	Output Pulse Width		1s $\pm$ 30 ms			
Interlock Function	Interlock M-NET devices and output contacts according to status of input contacts. (*8)					
Environment Conditions	Temperature		Operating temperature range	0 to 40°C [32°F to 104°F]		
			Storage temperature range	-20 to 60°C [-4°F to 140°F]		
	Humidity		30 to 90%RH (no condensation)			
Dimensions	200 (W) $\times$ 120 (H) $\times$ 45 (D) mm / 77/8 (W) $\times$ 43/4 (H) $\times$ 125/32 (D) in					
Weight	0.6 kg / 13/8 lbs					
Time Backup During Power Failure	In the event of power failure or shut-off, the internal capacitor will continue to track time for approximately one week. (The internal capacitor takes about 24 hours to fully charge; a replacement battery is not necessary.)					
Installation Environment	Inside the metal control board (indoors) * Use this product in a hotel, a business office environment or similar environment.					

\*1: For details, refer to "1-(2). Parts Purchased Separately".

\*2: Supply electric power from a power unit for the transmission line or an outdoor unit.

Furthermore, the power consumption factor of the M-NET circuitry of this device is "1/4".

\*3: Non-voltage Relay contact or transistor is available for output. Only one can be used at a time.

\*4: ( ) is in the case of a pulse.

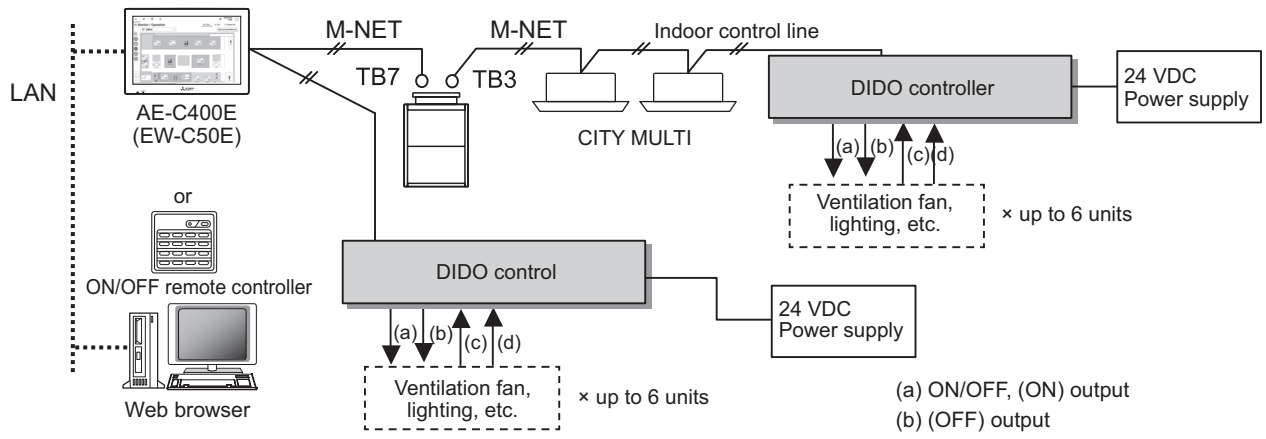
\*5: The output is open collector type. Power must be supplied from an external power source to the output circuit of this device.

\*6: Power is supplied from this device to the external contacts.

\*7: Power must be supplied from an external power source.

\*8: M3 and M3.5 are sizes of the screw on the terminal block (ISO metric screw thread).

The number indicates the screw diameter (mm).



\*This figure omits the power supply line and only shows the transmission line.

- (a) ON/OFF, (ON) output
- (b) (OFF) output
- (c) ON/OFF input
- (d) Error/Normal input
- Standard: Terminal block (for 2 units)
- Expansion: Connectors (for 4 units)
- Total: 6 units

<Restrictions>

Maximum of 50 units (50 channels) per AE-C400E/EW-C50E

However, the number of units that can be connected to a AE-C400E/EW-C50E is up to 50 including the number of contacts used on this device, an indoor unit, LOSSNAY unit, etc.

Up to 6 contacts can be connected to the DIDO controller (1 M-NET address). One contact connected to this device is calculated as the equivalent of one indoor unit connected to AE-C400E/EW-C50E.

For example, 5 contacts connected to the DIDO controller are calculated as the equivalent of 5 indoor units connected to AE-C400E/EW-C50E.

**NOTE**

- For the shield ground of the M-NET centralized control line, use single-point grounding at the power unit for the transmission line. However, when supplying electric power to the M-NET centralized control line from the R410A-Series outdoor unit\*1 without using a power supply unit for the transmission line, use single-point grounding at the TB7 of that outdoor unit. \*1: Except PUMY model. Furthermore, when connecting this device to the M-NET indoor control line, use grounding at the TB3 for each outdoor unit system.
- If the M-NET transmission line of this device is connected to the M-NET indoor control line and the outdoor unit is down because, for example, the power supply is interrupted for servicing or there is a failure, the DIDO controller cannot be controlled from the system controller.
- Controlling the ON/OFF remote controller is only possible with channel 1 of a standard terminal block.
- When AE-C400E/EW-C50E is connected, monitoring control can only be performed from AE-C400E/EW-C50E Web. Monitoring control cannot be performed from the ON/OFF remote controller.