

Job Name: _____

Drawing Reference: _____

Schedule No. _____

OVERVIEW OF CITY MULTI CONTROLS NETWORK (CMCN)

- Consists of TG-2000 integrated system software, G-50A/GB-50A centralized controllers, timers, remote controllers, and BMS interfaces.
- TG-2000 integrated system software supports up to 40 G-50A/GB-50A centralized controllers (licensed for PC software features) for a maximum of 2,000 indoor units from a single PC.
- G-50A centralized controller operates up to 50 indoor units with optional control via a field-supplied PC with licensed software.
- GB-50A centralized controller operates up to 50 indoor units via a field-supplied PC with licensed software.
- ON/OFF Controller (PAC-YT40ANRA) provides on/off control for 16 individual groups (for a maximum of 50 indoor units).
- Schedule Timer (PAC-YT34STA) provides system schedule control (on/off, operation mode [cool or heat]), set temperature, permit/prohibit of remote controller functions (on/off, operation mode selection, set temperature).
- Group System Controller (PAC-SF44SRA) provides system control (on/off, operation mode [cool, heat, dry, fan, auto—R2-Series only]), set temperature, permit/prohibit of remote controller functions (on/off, operation mode selection, set temperature), fan speed, and air flow direction of up to 50 indoor units.
- Remote controllers consist of Deluxe MA, Simple MA Wireless MA, and ME.
- I/O controllers consist of DIDO (PAC-YG66DCA) and AI (PAC-YG63MCA) for third-party equipment control.
- LonWorks® and BACnet® interfaces also available.
- Interlocking of LOSSNAY® ERV units for control via the G-50A/GB-50A centralized controllers.

**DIGITAL INPUT / DIGITAL OUTPUT (DIDO) CONTROLLER (PAC-YG66DCA)****Capabilities**

- Use in combination with a centralized controller to operate/stop general-purpose equipment, as well as to monitor operating and error status.
- Equipped with two sets (channels 1 and 2) of standard terminals and four sets of expansion connectors as the input/output terminals.
- Interlock Function: Interlock M-NET devices and output contact according to status of input contacts.
- G-50A/GB-50A web browsers (v3.2 or later) or TG-2000 (v5.1 or later) required for DIDO monitoring/operation. PC Monitoring (SW-MON) and PC Scheduling (SW-SCHED) software licenses required.

General Specifications

- Power Supply
 - 24 VDC, 5 W, 0.2 A (minimum loading).
 - Ripple noise: Lower than 200 mVp-p.
 - When using transistor output, increase the power supply capacity 0.1A for every set to match the number used.
 - One set used: min. 0.3 A; Two sets used: min. 0.4 A.
 - Three sets used: min. 0.5 A; Four sets used: min. 0.6 A.
 - Five sets used: min. 0.7 A; Six sets used: min. 0.8 A.
 - Dimensions: 7-7/8 W x 4-3/4 D x 1-13/16" H (200 x 120 x 45 mm).
 - Weight: 1-3/8 lbs. (0.6 kg).
 - Environment Conditions
 - Operating temperature range: 32° to 104° F (0° to 40° C).
 - Storage temperature range: -4° to +140° F (-20° to +60° C).
 - Relative humidity: 30 to 90% (non-condensation)
 - Install in an indoor control panel.
 - M-NET communication: 17 to 30 VDC.
- M-NET circuitry for this device powered via a separate power supply unit (PAC-SC50KUA).*
- Internal capacitor will continue to track time for one week in the event of a power failure.

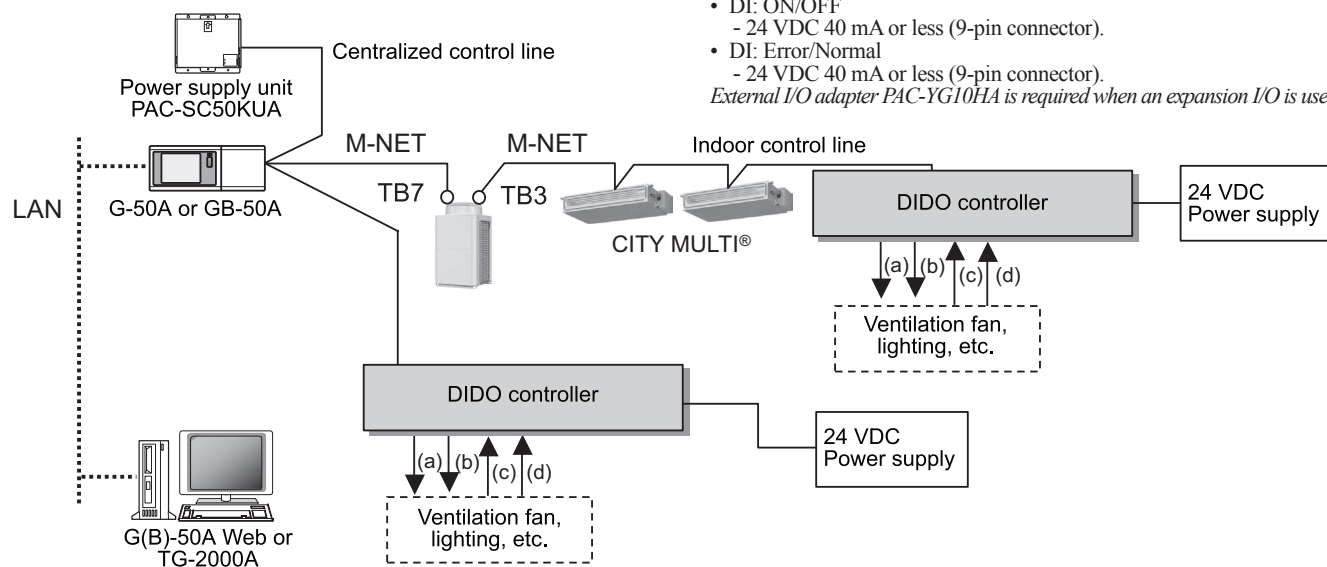
Main Board Specifications

- DO: ON/OFF (ON-Pulse)
 - Non-voltage relay contact; applied load max.: 24 VDC, 5W; min.: 5VDC, 2mW.
 - Transistor; 24 VDC 40 mA or less.
- DO: (OFF-Pulse)
 - Non-voltage relay contact; applied load max.: 24 VDC, 5W; min.: 5 VDC, 2mW.
 - Transistor; 24 VDC 40 mA or less.
- DI: ON/OFF
 - Non-voltage a contact (2 each); 24 VDC 1 mA or less.
- DI: Error/Normal
 - Non-voltage a contact (2 each); 24 VDC 1 mA or less.

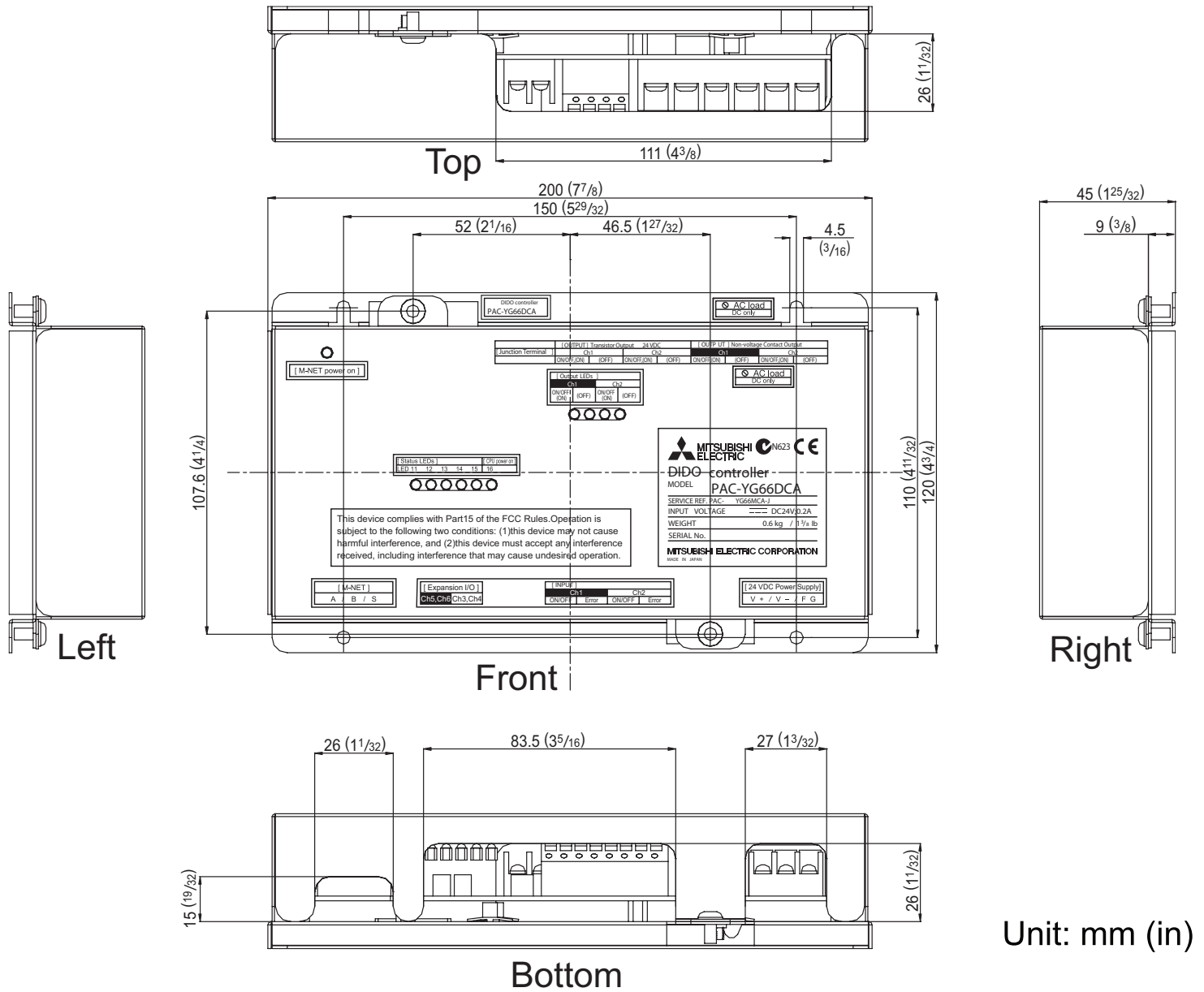
Expansion Board Specifications

- DO: ON/OFF (ON-Pulse): Transistor (4 each); 24 VDC 40 mA or less (9-pin connector).
- DO: (OFF-Pulse): Transistor (4 each); 24 VDC 40 mA or less (9-pin connector).
- DI: ON/OFF
 - 24 VDC 40 mA or less (9-pin connector).
- DI: Error/Normal
 - 24 VDC 40 mA or less (9-pin connector).

External I/O adapter PAC-YG10HA is required when an expansion I/O is used.

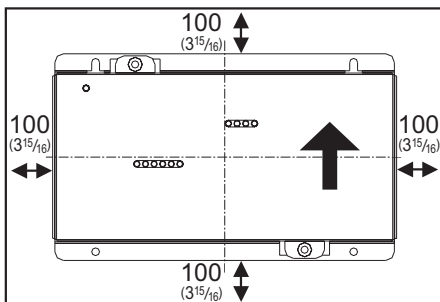


Model: PAC-YG66DCA



Unit: mm (in)

Minimum Clearance



Unit: mm (in)



Certificate Number FM33568

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of quality warranties for the production of refrigeration and air conditioning equipment.

ISO Authorization System

The ISO 9000 series is a plant authorization system relating to quality warranties as stipulated by the ISO. ISO 9001 certifies quality warranties based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



Distributor:

Specifications are subject to change without notice.



Certificate Number EC97J1227

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

PAC-YG66DCA_DIDO_Controller_2008A © Mitsubishi Electric