CITY MULTI®

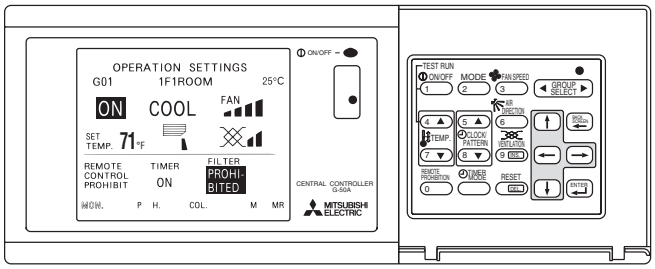
Model: G-50A Premier

(G-50A Premier Package)

MITSUBISHI ELECTRIC

Job Name:

Drawing Reference: Schedule No.



G-50A PREMIER PACKAGE INCLUDES

- G-50A: Centralized Controller
- PAC-SC50KUA-F: Power Supply
- SW-Mon: PC Monitoring
- SW-Sch: PC Scheduling
- SW-Charge: Tenant Billing
- SW-Email: Online Error Email
- SW-Maint: Online Maintenance Tool
- SW-PWeb: Online Personal Browser
- SW-TG2000A: TG-2000 Software

SOFTWARE FEATURES INCLUDE

- SW-Mon: PC Monitoring enables building manager to monitor and operate all indoor units from a network PC's web browser for up to 50 units per G-50A.
- SW-Sch: PC Scheduling enables building manager to customize daily, weekly and annual schedules from a network PC's web browser for up to 50 units per G-50A. Schedules can be applied to a single indoor unit, a group of indoor units or collectively (batch) to all indoor units controlled by the G-50A.
- SW-Charge: Tenant Billing "Charge" calculates per tenant CITY MULTI energy usage in kWh and in monetary amount based on the energy consumption of the outdoor unit(s) divided among the associated indoor units. Requires TG-2000 software on a dedicated network PC connected to RS-485 Watt Hour Meters (WHM).
- SW-Email: Online Error Email Distribution when an error occurs on the CITY MULTI system monitored by the G-50A. The fault will be detected, and a detailed alert will be sent via Email to the necessary personnel.
- SW-Maint: Online Maintenance Tool software performs maintenance diagnostics via network PC and G-50A Centralized Controller. Does not require CMS-MNF-B converter/cable.
- SW-Pweb: Online Personal Web Browser allows individual user (up to 50) to control his/her zone conditioning via personal networked PC with or without a remote controller.
- SW-TG-2000A: TG-2000 Integrated System Software enables the building manager to control up to 40 G-50A Centralized Controllers with a maximum of 2,000 indoor units across multiple CITY MULTI outdoor units. Requires a dedicated networked PC and G-50A software licenses (per G-50A per function).

OPTIONAL SOFTWARE FEATURES INCLUDE

- SW-BACnet: BACnet interface option that allows BMS and EMS to integrate to CITY MULTI. Requires field-supplied dedicated network PC with two LAN ports. Maximum of 10 G-50A/GB-50A Centralized Controllers per BACnet interface PC

G-50A CENTRALIZED CONTROLLER SPECIFICATIONS

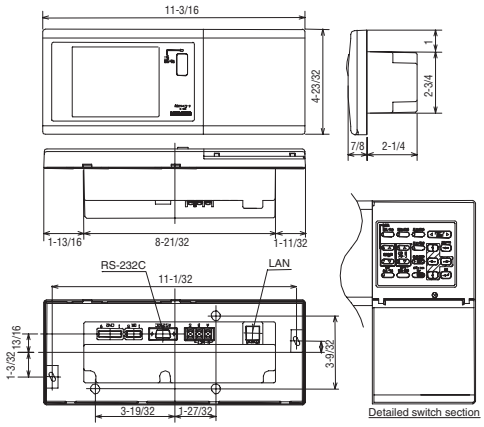
- Manages up to 50 indoor units in terms of monitoring, operation, scheduling (daily/weekly) and maintenance diagnostics. Units can be controlled individually, in a group or in a collective batch operation.
- Controls ON/OFF, operation mode selection (COOL, HEAT, AUTO, DRY, FAN), Temperature Setting and Airflow Direction.
- Permits or prohibits remote controller functions such as ON/OFF, Change Operation Mode, and Set Temperature.
- Scheduling: supports daily schedule (three ON/OFF settings) and weekly schedule (21 ON/OFF settings per week). Schedule functionality is expanded to 12 settings per day and 84 settings per week when licensed for operation via PC browser.
- Setback: programs setback by 0°F-18°F.
- Diagnostics: displays four-digit error code and error unit address for up to 50 units.
- Addressing: requires manual addressing using rotary dial switch to the M-NET communication bus (default address is 000).
- Wiring: requires power supply unit (PAC-SC50KUA) that supplies 12 VDC.
- Dimensions: 11-13/16" x 3-1/8" x 4-3/4"
- Expandability: RJ-45 Ethernet port supports optional interconnection directly to PC or to Local Area Network (LAN). PC browser functions and TG-2000 software functions require Mitsubishi Electric HVAC-issued software licenses for defined term.
- External input/output signals can be used for batch operations such as START/STOP and EMERGENCY STOP.

PAC-SC50KUA-F POWER SUPPLY SPECIFICATIONS

- Rated input voltage and current: 208V-230V; 0.25 A; 60Hz single-phase.
  Fuse: 2.0 A time-delay type.
- Output voltage/current:
  M-NET: DC24V 0.45A (Maximum Loading).
  DC Power supply: DC12V 0.2A (Maximum Loading).
- Dimensions: (HxWxD): 9-1/2" x 10-7/16" X 2-3/8"
- Weight: 5-1/8 lb.
- Indoor installation in control panel box.

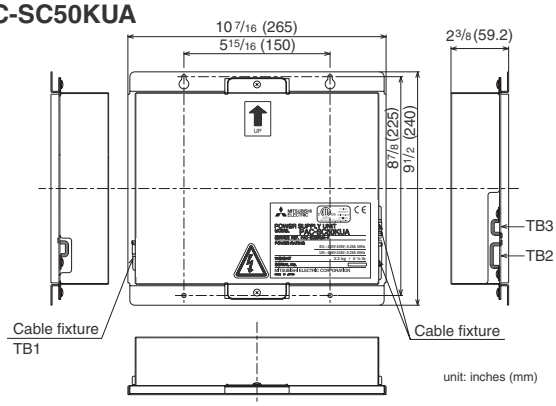
Model: G-50A Premier (G-50A Premier Package)

G-50A



Item	Detail
Product dimension	4-23/32 (H) × 11-13/16 (W) × 3-1/8 (7/8)(D) inches 120 (H) × 300 (W) × 79 (22)(D) mm
Weight	2.2 lbs. (1.0kg)
Power source	DC30V Supplied from M-NET transmission line. (Received from the power supply unit for transmission line or outdoor unit (TB3) through M-NET transmission line.)
Operating environment	Temperature: 32°~104°F (0~40°C) Humidity: 30~90%RH (No condensation allowed)
Material	ABS
External color	Cover section: white-gray (MUNSELL 4.48Y7.92/0.66) Liquid crystal surrounding section: medium-gray (DIC551)
Mounting method	Mount to a switch box for five pcs. (with cover, field supply). Transmission line should be non-polar two-wire and connected to transmission line for M-NET centralized control.

PAC-SC50KUA



Item	Detail	
Source power requirement	Rated input voltage and current	EU: ~ 220V - 240V; 0.25A/50Hz Single-phase US: ~ 208V - 230V; 0.25A/60Hz Single-phase
	Fuse: 2.0A Time-delay type (IEC127-2 S.S.5)	
Output voltage/current	M-NET : DC24V 0.45A (Maximum loading) DC power supply: DC12V 0.2A (Maximum loading)	
Load capacity	Number of the loading unit: G-50A Central Controller 1 unit	
Environmental condition	Temperature	Operating range 32 to 104˚F / 0 to 40˚C Storage range -4 to 140˚F / -20 to 60˚C
	Humidity	30 ~ 90%RH (No condensation)
Dimensions	9 1/2(H)×10 7/16(W)× 2 3/8(D) in / 240(H) × 265(W) × 59.2(D)mm	
Weight	5.1 lbs. / 2.3kg	
Installation environment	In the control panel box (indoor)	

TG-2000 COMPUTER REQUIREMENTS • SOFTWARE VERSION: 4.70 OR LATER

Item		Requirement	Recommended/Notes
PC		PC/AT interchangeable machine	Recommended: Dell, IBM, Compaq)
CPU		1-1000 Indoor Units: Pentium IV 1.8 GHz or faster 1001-2000 Indoor Units: Pentium IV 2.8 GHz or faster	Pentium IV 2.8 GHz or faster
OS		Windows XP Professional Windows 2000 Professional Service Pack 2	English version only
Memory		256 MB or more	512 MB or more
HDD	Standard	6 GB or more (2 GB or more of C-drive free space necessary)	4 GB or more of C-drive free space recommended. When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2 GB, 500 groups = 5 GB, 1000 groups = 10 GB, 2000 groups = 20 GB
	Wide Area	20 GB or more (Free space)	Standard: max 200 MB/site
Serial Port		1 port or more	Required when using RS-485 communication for WHM
LAN		10Base-T/100Base-TX	
Modem		56k modem or TA	Required for wide area mode for TG-2000
Storage Device		CD, Disk Drive, USB, etc.	Optional
Resolution		1024x768 or higher, 65536 colors or more	
Other		Computer must be dedicated for use TG-2000 Requires 24-hour constant operation Requires UPS	Requires 24-hour consant operation

G-50A/GB-50A COMPUTER REQUIREMENTS FOR WEB BROWSER • SOFTWARE VERSION: 2.70 OR LATER

Item		Requirement	Recommended/Notes
CPU		Pentium 133MHz or faster	Pentium 300MHz or faster
Browser	Windows	Microsoft Internet Explorer 5.0 or later Microsoft VM Ver 5.0 or later or Java plug in Ver 1.4.2 or later	You can check MicrosoftVM version by entering jview at DOS command prompt You can check the Java version from the "Java plug-in" in the control panel.
	Macintosh	Safari (with Mac OS X), Java Plug-in Version 1.4.2 or later	Check Java Plug-in Version at the [Help]-[Installed Plug-ins] on the Safari browser.
Memory		64 MB or more	128 MB or more
LAN		10BASE-T	
Resolution		1024x768 or higher, 65536 colors or more	
Other		Pointing device such as a mouse.	

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.

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).

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CITY MULTI®

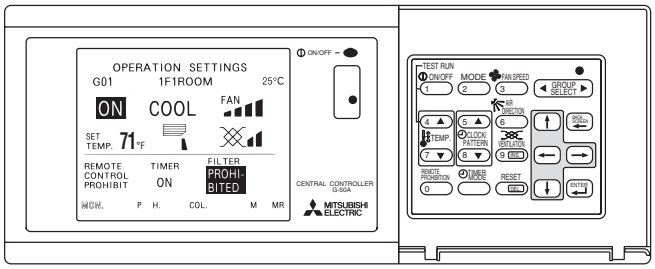
Model: G-50A Deluxe

(G-50A Deluxe Package)

MITSUBISHI ELECTRIC

Job Name:

Drawing Reference: Schedule No.



G-50A DELUXE PACKAGE INCLUDES:

- G-50A: Centralized Controller
- PAC-SC50KUA-F: Power Supply
- SW-Mon: PC Monitoring
- SW-Sch: PC Scheduling
- SW-Charge: Tenant Billing
- SW-Email: Online Error Email
- SW-Maint: Online Maintenance Tool
- SW-TG2000A: TG-2000 Software

SOFTWARE FEATURES INCLUDE

- SW-Mon: PC Monitoring enables building manager to monitor and operate all indoor units from a network PC's web browser for up to 50 units per G-50A.
- SW-Sch: PC Scheduling enables building manager to customize daily, weekly and annual schedules from a network PC's web browser for up to 50 units per G-50A. Schedules can be applied to a single indoor unit, a group of indoor units or collectively (batch) to all indoor units controlled by the G-50A.
- SW-Charge: Tenant Billing "Charge" calculates per tenant CITY MULTI energy usage in kWh and in monetary amount based on the energy consumption of the outdoor unit(s) divided among the associated indoor units. Requires TG-2000 software on a dedicated network PC connected to RS-485 Watt Hour Meters (WHM).
- SW-Email: Online Error Email Distribution when an error occurs on the CITY MULTI system monitored by the G-50A. The fault will be detected, and a detailed alert will be sent via Email to the necessary personnel.
- SW-Maint: Online Maintenance Tool software performs maintenance diagnostics via network PC and G-50A Centralized Controller. Does not require CMS-MNF-B converter/cable.
- SW-TG-2000A: TG-2000 Integrated System Software enables the building manager to control up to 40 G-50A Centralized Controllers with a maximum of 2,000 indoor units across multiple CITY MULTI outdoor units. Requires a dedicated networked PC and G-50A software licenses (per G-50A per function).

OPTIONAL SOFTWARE FEATURES INCLUDE

- SW-Pweb: Online Personal Web Browser allows individual user (up to 50) to control his/her zone conditioning via personal networked PC with or without a remote controller.
- SW-BACnet: BACnet interface option that allows BMS and EMS to integrate to CITY MULTI. Requires field-supplied dedicated network PC with two LAN ports. Maximum of 10 G-50A/GB-50A Centralized Controllers per BACnet interface PC

G-50A CENTRALIZED CONTROLLER SPECIFICATIONS

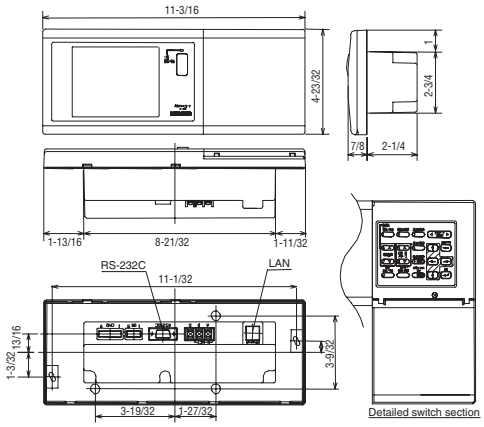
- Manages up to 50 indoor units in terms of monitoring, operation, scheduling (daily/weekly) and maintenance diagnostics. Units can be controlled individually, in a group or in a collective batch operation.
- Controls ON/OFF, operation mode selection (COOL, HEAT, AUTO, DRY, FAN), Temperature Setting and Airflow Direction.
- Permits or prohibits remote controller functions such as ON/OFF, Change Operation Mode, and Set Temperature.
- Scheduling: supports daily schedule (three ON/OFF settings) and weekly schedule (21 ON/OFF settings per week). Schedule functionality is expanded to 12 settings per day and 84 settings per week when licensed for operation via PC browser.
- Setback: programs setback by 0°F-18°F.
- Diagnostics: displays four-digit error code and error unit address for up to 50 units.
- Addressing: requires manual addressing using rotary dial switch to the M-NET communication bus (default address is 000).
- Wiring: requires power supply unit (PAC-SC50KUA) that supplies 12 VDC.
- Dimensions: 11-13/16" x 3-1/8" x 4-3/4"
- Expandability: RJ-45 Ethernet port supports optional interconnection directly to PC or to Local Area Network (LAN). PC browser functions and TG-2000 software functions require Mitsubishi Electric HVAC-issued software licenses for defined term.
- External input/output signals can be used for batch operations such as START/STOP and EMERGENCY STOP.

PAC-SC50KUA-F POWER SUPPLY SPECIFICATIONS

- Rated input voltage and current: 208V-230V; 0.25 A; 60Hz single-phase.
  Fuse: 2.0 A time-delay type.
- Output voltage/current:
  M-NET: DC24V 0.45A (Maximum Loading).
  DC Power supply: DC12V 0.2A (Maximum Loading).
- Dimensions: (HxWxD): 9-1/2" x 10-7/16" X 2-3/8"
- Weight: 5-1/8 lb.
- Indoor installation in control panel box.

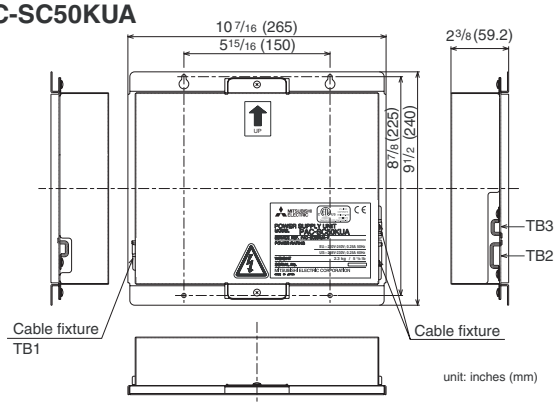
Model: G-50A Deluxe (G-50A Deluxe Package)

G-50A



Item	Detail
Product dimension	4-23/32 (H) × 11-13/16 (W) × 3-1/8 (7/8)(D) inches 120 (H) × 300 (W) × 79 (22)(D) mm
Weight	2.2 lbs. (1.0kg)
Power source	DC30V Supplied from M-NET transmission line. (Received from the power supply unit for transmission line or outdoor unit (TB3) through M-NET transmission line.)
Operating environment	Temperature: 32°~104°F (0~40°C) Humidity: 30~90%RH (No condensation allowed)
Material	ABS
External color	Cover section: white-gray (MUNSELL 4.48Y7.92/0.66) Liquid crystal surrounding section: medium-gray (DIC551)
Mounting method	Mount to a switch box for five pcs. (with cover, field supply). Transmission line should be non-polar two-wire and connected to transmission line for M-NET centralized control.

PAC-SC50KUA



Item	Detail	
Source power requirement	Rated input voltage and current	EU: ~ 220V - 240V; 0.25A/50Hz Single-phase US: ~ 208V - 230V; 0.25A/60Hz Single-phase
	Fuse: 2.0A Time-delay type (IEC127-2 S.S.5)	
Output voltage/current	M-NET : DC24V 0.45A (Maximum loading) DC power supply: DC12V 0.2A (Maximum loading)	
Load capacity	Number of the loading unit: G-50A Central Controller 1 unit	
Environmental condition	Temperature	Operating range 32 to 104˚F / 0 to 40˚C Storage range -4 to 140˚F / -20 to 60˚C
	Humidity	30 ~ 90%RH (No condensation)
Dimensions	9 1/2(H)×10 7/16(W)× 2 3/8(D) in / 240(H) × 265(W) × 59.2(D)mm	
Weight	5.1 lbs. / 2.3kg	
Installation environment	In the control panel box (indoor)	

TG-2000 COMPUTER REQUIREMENTS • SOFTWARE VERSION: 4.70 OR LATER

Item		Requirement	Recommended/Notes
PC		PC/AT interchangeable machine	Recommended: Dell, IBM, Compaq)
CPU		1-1000 Indoor Units: Pentium IV 1.8 GHz or faster 1001-2000 Indoor Units: Pentium IV 2.8 GHz or faster	Pentium IV 2.8 GHz or faster
OS		Windows XP Professional Windows 2000 Professional Service Pack 2	English version only
Memory		256 MB or more	512 MB or more
HDD	Standard	6 GB or more (2 GB or more of C-drive free space necessary)	4 GB or more of C-drive free space recommended. When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2 GB, 500 groups = 5 GB, 1000 groups = 10 GB, 2000 groups = 20 GB
	Wide Area	20 GB or more (Free space)	Standard: max 200 MB/site
Serial Port		1 port or more	Required when using RS-485 communication for WHM
LAN		10Base-T/100Base-TX	
Modem		56k modem or TA	Required for wide area mode for TG-2000
Storage Device		CD, Disk Drive, USB, etc.	Optional
Resolution		1024x768 or higher, 65536 colors or more	
Other		Computer must be dedicated for use TG-2000 Requires 24-hour constant operation Requires UPS	Requires 24-hour consant operation

G-50A/GB-50A COMPUTER REQUIREMENTS FOR WEB BROWSER • SOFTWARE VERSION: 2.70 OR LATER

Item		Requirement	Recommended/Notes
CPU		Pentium 133MHz or faster	Pentium 300MHz or faster
Browser	Windows	Microsoft Internet Explorer 5.0 or later Microsoft VM Ver 5.0 or later or Java plug in Ver 1.4.2 or later	You can check MicrosoftVM version by entering jview at DOS command prompt You can check the Java version from the "Java plug-in" in the control panel.
	Macintosh	Safari (with Mac OS X), Java Plug-in Version 1.4.2 or later	Check Java Plug-in Version at the [Help]-[Installed Plug-ins] on the Safari browser.
Memory		64 MB or more	128 MB or more
LAN		10BASE-T	
Resolution		1024x768 or higher, 65536 colors or more	
Other		Pointing device such as a mouse.	

Certificate Number FM33568

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CITY MULTI®

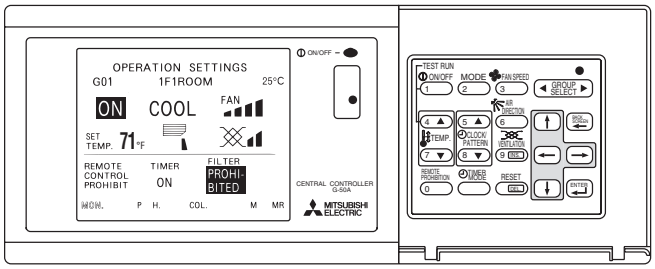
Model: G-50A Pbrowse

(G-50A Personal Browser Package)

MITSUBISHI ELECTRIC

Job Name:

Drawing Reference: Schedule No.



G-50A PERSONAL BROWSER PACKAGE INCLUDES:

- G-50A: Centralized Controller
- PAC-SC50KUA-F: Power Supply
- SW-Mon: PC Monitoring
- SW-Sch: PC Scheduling
- SW-Pweb: Online Personal Browser
- SW-TG2000A: TG-2000 Software

SOFTWARE FEATURES INCLUDE

- SW-Mon: PC Monitoring enables building manager to monitor and operate all indoor units from a network PC's web browser for up to 50 units per G-50A.
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- SW-TG-2000A: TG-2000 Integrated System Software enables the building manager to control up to 40 G-50A Centralized Controllers with a maximum of 2,000 indoor units across multiple CITY MULTI outdoor units. Requires a dedicated networked PC and G-50A software licenses (per G-50A per function).

OPTIONAL SOFTWARE FEATURES INCLUDE

- SW-Charge: Tenant Billing "Charge" calculates per tenant CITY MULTI energy usage in kWh and in monetary amount based on the energy consumption of the outdoor unit(s) divided among the associated indoor units. Requires TG-2000 software on a dedicated network PC connected to RS-485 Watt Hour Meters (WHM).
- SW-Email: Online Error Email Distribution when an error occurs on the CITY MULTI system monitored by the G-50A. The fault will be detected, and a detailed alert will be sent via Email to the necessary personnel.
- SW-Maint: Online Maintenance Tool software performs maintenance diagnostics via network PC and G-50A Centralized Controller. Does not require CMS-MNF-B converter/cable.
- SW-BACnet: BACnet interface option that allows BMS and EMS to integrate to CITY MULTI. Requires field-supplied dedicated network PC with two LAN ports. Maximum of 10 G-50A/GB-50A Centralized Controllers per BACnet interface PC

G-50A CENTRALIZED CONTROLLER SPECIFICATIONS

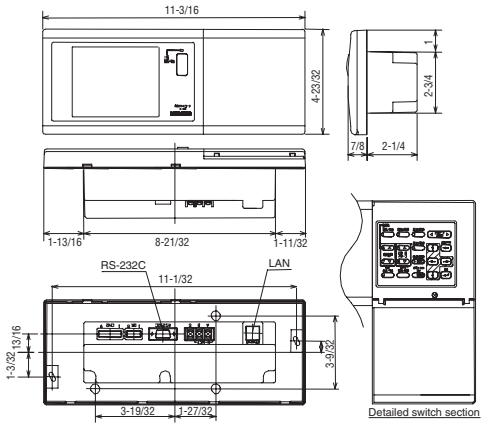
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- Controls ON/OFF, operation mode selection (COOL, HEAT, AUTO, DRY, FAN), Temperature Setting and Airflow Direction.
- Permits or prohibits remote controller functions such as ON/OFF, Change Operation Mode, and Set Temperature.
- Scheduling: supports daily schedule (three ON/OFF settings) and weekly schedule (21 ON/OFF settings per week). Schedule functionality is expanded to 12 settings per day and 84 settings per week when licensed for operation via PC browser.
- Setback: programs setback by 0°F-18°F.
- Diagnostics: displays four-digit error code and error unit address for up to 50 units.
- Addressing: requires manual addressing using rotary dial switch to the M-NET communication bus (default address is 000).
- Wiring: requires power supply unit (PAC-SC50KUA) that supplies 12 VDC.
- Dimensions: 11-13/16" x 3-1/8" x 4-3/4"
- Expandability: RJ-45 Ethernet port supports optional interconnection directly to PC or to Local Area Network (LAN). PC browser functions and TG-2000 software functions require Mitsubishi Electric HVAC-issued software licenses for defined term.
- External input/output signals can be used for batch operations such as START/STOP and EMERGENCY STOP.

PAC-SC50KUA-F POWER SUPPLY SPECIFICATIONS

- Rated input voltage and current: 208V-230V; 0.25 A; 60Hz single-phase.
  Fuse: 2.0 A time-delay type.
- Output voltage/current:
  M-NET: DC24V 0.45A (Maximum Loading).
  DC Power supply: DC12V 0.2A (Maximum Loading).
- Dimensions: (HxWxD): 9-1/2" x 10-7/16" X 2-3/8"
- Weight: 5-1/8 lb.
- Indoor installation in control panel box.

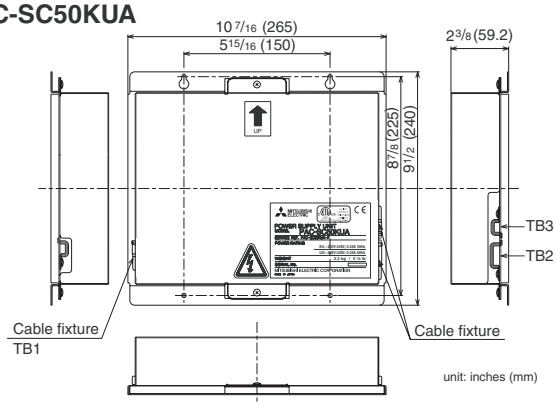
Model: G-50A Pbrowse (G-50A Personal Browser Package)

G-50A



Item	Detail
Product dimension	4-23/32 (H) × 11-13/16 (W) × 3-1/8 (7/8)(D) inches 120 (H) × 300 (W) × 79 (22)(D) mm
Weight	2.2 lbs. (1.0kg)
Power source	DC30V Supplied from M-NET transmission line. (Received from the power supply unit for transmission line or outdoor unit (TB3) through M-NET transmission line.)
Operating environment	Temperature: 32°~104°F (0~40°C) Humidity: 30~90%RH (No condensation allowed)
Material	ABS
External color	Cover section: white-gray (MUNSELL 4.48Y7.92/0.66) Liquid crystal surrounding section: medium-gray (DIC551)
Mounting method	Mount to a switch box for five pcs. (with cover, field supply). Transmission line should be non-polar two-wire and connected to transmission line for M-NET centralized control.

PAC-SC50KUA



Item	Detail	
Source power requirement	Rated input voltage and current	EU: ~ 220V - 240V; 0.25A/50Hz Single-phase US: ~ 208V - 230V; 0.25A/60Hz Single-phase
	Fuse: 2.0A Time-delay type (IEC127-2 S.S.5)	
Output voltage/current	M-NET : DC24V 0.45A (Maximum loading) DC power supply: DC12V 0.2A (Maximum loading)	
Load capacity	Number of the loading unit: G-50A Central Controller 1 unit	
Environmental condition	Temperature	Operating range 32 to 104˚F / 0 to 40˚C Storage range -4 to 140˚F / -20 to 60˚C
	Humidity	30 ~ 90%RH (No condensation)
Dimensions	9 1/2(H)×10 7/16(W)× 2 3/8(D) in / 240(H) × 265(W) × 59.2(D)mm	
Weight	5.1 lbs. / 2.3kg	
Installation environment	In the control panel box (indoor)	

TG-2000 COMPUTER REQUIREMENTS • SOFTWARE VERSION: 4.70 OR LATER

Item		Requirement	Recommended/Notes
PC		PC/AT interchangeable machine	Recommended: Dell, IBM, Compaq)
CPU		1-1000 Indoor Units: Pentium IV 1.8 GHz or faster 1001-2000 Indoor Units: Pentium IV 2.8 GHz or faster	Pentium IV 2.8 GHz or faster
OS		Windows XP Professional Windows 2000 Professional Service Pack 2	English version only
Memory		256 MB or more	512 MB or more
HDD	Standard	6 GB or more (2 GB or more of C-drive free space necessary)	4 GB or more of C-drive free space recommended. When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2 GB, 500 groups = 5 GB, 1000 groups = 10 GB, 2000 groups = 20 GB
	Wide Area	20 GB or more (Free space)	Standard: max 200 MB/site
Serial Port		1 port or more	Required when using RS-485 communication for WHM
LAN		10Base-T/100Base-TX	
Modem		56k modem or TA	Required for wide area mode for TG-2000
Storage Device		CD, Disk Drive, USB, etc.	Optional
Resolution		1024x768 or higher, 65536 colors or more	
Other		Computer must be dedicated for use TG-2000 Requires 24-hour constant operation Requires UPS	Requires 24-hour consant operation

G-50A/GB-50A COMPUTER REQUIREMENTS FOR WEB BROWSER • SOFTWARE VERSION: 2.70 OR LATER

Item		Requirement	Recommended/Notes
CPU		Pentium 133MHz or faster	Pentium 300MHz or faster
Browser	Windows	Microsoft Internet Explorer 5.0 or later Microsoft VM Ver 5.0 or later or Java plug in Ver 1.4.2 or later	You can check MicrosoftVM version by entering jview at DOS command prompt You can check the Java version from the "Java plug-in" in the control panel.
	Macintosh	Safari (with Mac OS X), Java Plug-in Version 1.4.2 or later	Check Java Plug-in Version at the [Help]-[Installed Plug-ins] on the Safari browser.
Memory		64 MB or more	128 MB or more
LAN		10BASE-T	
Resolution		1024x768 or higher, 65536 colors or more	
Other		Pointing device such as a mouse.	

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.

Certificate Number EC97J1227

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

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HVAC Advanced Products Division
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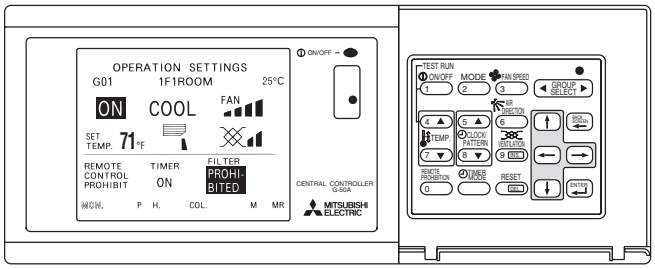
Model: G-50A Tenant

(G-50A Tenant Billing Package)

MITSUBISHI ELECTRIC

Job Name:

Drawing Reference: Schedule No.



G-50A TENANT BILLING PACKAGE INCLUDES:

- G-50A: Centralized Controller
- PAC-SC50KUA-F: Power Supply
- SW-Mon: PC Monitoring
- SW-Sch: PC Scheduling
- SW-Charge: Tenant Billing
- SW-TG2000A: TG-2000 Software

SOFTWARE FEATURES INCLUDE

- SW-Mon: PC Monitoring enables building manager to monitor and operate all indoor units from a network PC's web browser for up to 50 units per G-50A.
- SW-Sch: PC Scheduling enables building manager to customize daily, weekly and annual schedules from a network PC's web browser for up to 50 units per G-50A. Schedules can be applied to a single indoor unit, a group of indoor units or collectively (batch) to all indoor units controlled by the G-50A.
- SW-Charge: Tenant Billing "Charge" calculates per tenant CITY MULTI energy usage in kWh and in monetary amount based on the energy consumption of the outdoor unit(s) divided among the associated indoor units. Requires TG-2000 software on a dedicated network PC connected to RS-485 Watt Hour Meters (WHM).
- SW-TG-2000A: TG-2000 Integrated System Software enables the building manager to control up to 40 G-50A Centralized Controllers with a maximum of 2,000 indoor units across multiple CITY MULTI outdoor units. Requires a dedicated networked PC and G-50A software licenses (per G-50A per function).

OPTIONAL SOFTWARE FEATURES INCLUDE

- SW-Email: Online Error Email Distribution when an error occurs on the CITY MULTI system monitored by the G-50A. The fault will be detected, and a detailed alert will be sent via Email to the necessary personnel.
- SW-Maint: Online Maintenance Tool software performs maintenance diagnostics via network PC and G-50A Centralized Controller. Does not require CMS-MNF-B converter/cable.
- SW-Pweb: Online Personal Web Browser allows individual user (up to 50) to control his/her zone conditioning via personal networked PC with or without a remote controller.
- SW-BACnet: BACnet interface option that allows BMS and EMS to integrate to CITY MULTI. Requires field-supplied dedicated network PC with two LAN ports. Maximum of 10 G-50A/GB-50A Centralized Controllers per BACnet interface PC

G-50A CENTRALIZED CONTROLLER SPECIFICATIONS

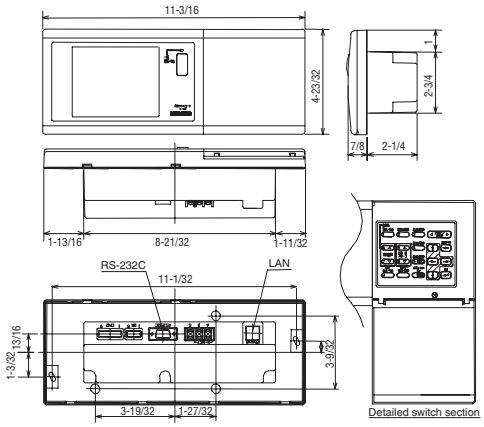
- Manages up to 50 indoor units in terms of monitoring, operation, scheduling (daily/weekly) and maintenance diagnostics. Units can be controlled individually, in a group or in a collective batch operation.
- Controls ON/OFF, operation mode selection (COOL, HEAT, AUTO, DRY, FAN), Temperature Setting and Airflow Direction.
- Permits or prohibits remote controller functions such as ON/OFF, Change Operation Mode, and Set Temperature.
- Scheduling: supports daily schedule (three ON/OFF settings) and weekly schedule (21 ON/OFF settings per week). Schedule functionality is expanded to 12 settings per day and 84 settings per week when licensed for operation via PC browser.
- Setback: programs setback by 0°F-18°F.
- Diagnostics: displays four-digit error code and error unit address for up to 50 units.
- Addressing: requires manual addressing using rotary dial switch to the M-NET communication bus (default address is 000).
- Wiring: requires power supply unit (PAC-SC50KUA) that supplies 12 VDC.
- Dimensions: 11-13/16" x 3-1/8" x 4-3/4"
- Expandability: RJ-45 Ethernet port supports optional interconnection directly to PC or to Local Area Network (LAN). PC browser functions and TG-2000 software functions require Mitsubishi Electric HVAC-issued software licenses for defined term.
- External input/output signals can be used for batch operations such as START/STOP and EMERGENCY STOP.

PAC-SC50KUA-F POWER SUPPLY SPECIFICATIONS

- Rated input voltage and current: 208V-230V; 0.25 A; 60Hz single-phase.
  Fuse: 2.0 A time-delay type.
- Output voltage/current:
  M-NET: DC24V 0.45A (Maximum Loading).
  DC Power supply: DC12V 0.2A (Maximum Loading).
- Dimensions: (HxWxD): 9-1/2" x 10-7/16" X 2-3/8"
- Weight: 5-1/8 lb.
- Indoor installation in control panel box.

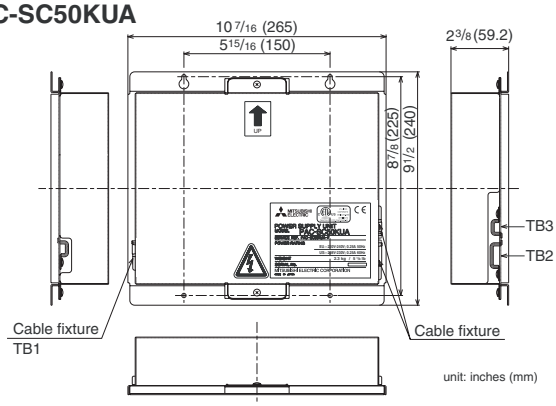
Model: G-50A Tenant (G-50A Tenant Billing Package)

G-50A



Item	Detail
Product dimension	4-23/32 (H) × 11-13/16 (W) × 3-1/8 (7/8)(D) inches 120 (H) × 300 (W) × 79 (22)(D) mm
Weight	2.2 lbs. (1.0kg)
Power source	DC30V Supplied from M-NET transmission line. (Received from the power supply unit for transmission line or outdoor unit (TB3) through M-NET transmission line.)
Operating environment	Temperature: 32°~104°F (0~40°C) Humidity: 30~90%RH (No condensation allowed)
Material	ABS
External color	Cover section: white-gray (MUNSELL 4.48Y7.92/0.66) Liquid crystal surrounding section: medium-gray (DIC551)
Mounting method	Mount to a switch box for five pcs. (with cover, field supply). Transmission line should be non-polar two-wire and connected to transmission line for M-NET centralized control.

PAC-SC50KUA



Item	Detail	
Source power requirement	Rated input voltage and current	EU: ~ 220V - 240V; 0.25A/50Hz Single-phase US: ~ 208V - 230V; 0.25A/60Hz Single-phase
	Fuse: 2.0A Time-delay type (IEC127-2 S.S.5)	
Output voltage/current	M-NET : DC24V 0.45A (Maximum loading) DC power supply: DC12V 0.2A (Maximum loading)	
Load capacity	Number of the loading unit: G-50A Central Controller 1 unit	
Environmental condition	Temperature	Operating range 32 to 104˚F / 0 to 40˚C Storage range -4 to 140˚F / -20 to 60˚C
	Humidity	30 ~ 90%RH (No condensation)
Dimensions	9 1/2(H)×10 7/16(W)× 2 3/8(D) in / 240(H) × 265(W) × 59.2(D)mm	
Weight	5.1 lbs. / 2.3kg	
Installation environment	In the control panel box (indoor)	

TG-2000 COMPUTER REQUIREMENTS • SOFTWARE VERSION: 4.70 OR LATER

Item		Requirement	Recommended/Notes
PC		PC/AT interchangeable machine	Recommended: Dell, IBM, Compaq)
CPU		1-1000 Indoor Units: Pentium IV 1.8 GHz or faster 1001-2000 Indoor Units: Pentium IV 2.8 GHz or faster	Pentium IV 2.8 GHz or faster
OS		Windows XP Professional Windows 2000 Professional Service Pack 2	English version only
Memory		256 MB or more	512 MB or more
HDD	Standard	6 GB or more (2 GB or more of C-drive free space necessary)	4 GB or more of C-drive free space recommended. When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2 GB, 500 groups = 5 GB, 1000 groups = 10 GB, 2000 groups = 20 GB
	Wide Area	20 GB or more (Free space)	Standard: max 200 MB/site
Serial Port		1 port or more	Required when using RS-485 communication for WHM
LAN		10Base-T/100Base-TX	
Modem		56k modem or TA	Required for wide area mode for TG-2000
Storage Device		CD, Disk Drive, USB, etc.	Optional
Resolution		1024x768 or higher, 65536 colors or more	
Other		Computer must be dedicated for use TG-2000 Requires 24-hour constant operation Requires UPS	Requires 24-hour consant operation

G-50A/GB-50A COMPUTER REQUIREMENTS FOR WEB BROWSER • SOFTWARE VERSION: 2.70 OR LATER

Item		Requirement	Recommended/Notes
CPU		Pentium 133MHz or faster	Pentium 300MHz or faster
Browser	Windows	Microsoft Internet Explorer 5.0 or later Microsoft VM Ver 5.0 or later or Java plug in Ver 1.4.2 or later	You can check MicrosoftVM version by entering jview at DOS command prompt You can check the Java version from the "Java plug-in" in the control panel.
	Macintosh	Safari (with Mac OS X), Java Plug-in Version 1.4.2 or later	Check Java Plug-in Version at the [Help]-[Installed Plug-ins] on the Safari browser.
Memory		64 MB or more	128 MB or more
LAN		10BASE-T	
Resolution		1024x768 or higher, 65536 colors or more	
Other		Pointing device such as a mouse.	

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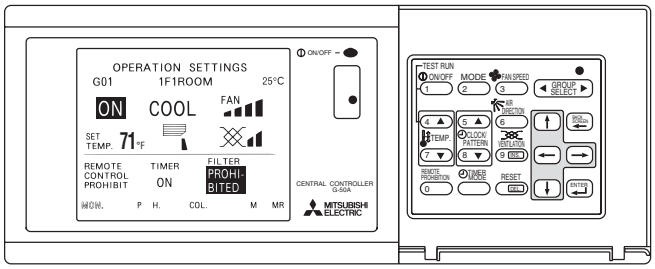
Model: G-50A Base

(G-50A Base Package)

MITSUBISHI ELECTRIC

Job Name:

Drawing Reference: Schedule No.



G-50A BASE PACKAGE INCLUDES:

- G-50A: Centralized Controller
- PAC-SC50KUA-F: Power Supply
- SW-Mon: PC Monitoring
- SW-Sch: PC Scheduling
- SW-TG2000A: TG-2000 Software

SOFTWARE FEATURES INCLUDE

- SW-Mon: PC Monitoring enables building manager to monitor and operate all indoor units from a network PC's web browser for up to 50 units per G-50A.
- SW-Sch: PC Scheduling enables building manager to customize daily, weekly and annual schedules from a network PC's web browser for up to 50 units per G-50A. Schedules can be applied to a single indoor unit, a group of indoor units or collectively (batch) to all indoor units controlled by the G-50A.
- SW-TG-2000A: TG-2000 Integrated System Software enables the building manager to control up to 40 G-50A Centralized Controllers with a maximum of 2,000 indoor units across multiple CITY MULTI outdoor units. Requires a dedicated networked PC and G-50A software licenses (per G-50A per function).

OPTIONAL SOFTWARE FEATURES INCLUDE

- SW-Charge: Tenant Billing "Charge" calculates per tenant CITY MULTI energy usage in kWh and in monetary amount based on the energy consumption of the outdoor unit(s) divided among the associated indoor units. Requires TG-2000 software on a dedicated network PC connected to RS-485 Watt Hour Meters (WHM).
- SW-Email: Online Error Email Distribution when an error occurs on the CITY MULTI system monitored by the G-50A. The fault will be detected, and a detailed alert will be sent via Email to the necessary personnel.
- SW-Maint: Online Maintenance Tool software performs maintenance diagnostics via network PC and G-50A Centralized Controller. Does not require CMS-MNF-B converter/cable.
- SW-Pweb: Online Personal Web Browser allows individual user (up to 50) to control his/her zone conditioning via personal networked PC with or without a remote controller.
- SW-BACnet: BACnet interface option that allows BMS and EMS to integrate to CITY MULTI. Requires field-supplied dedicated network PC with two LAN ports. Maximum of 10 G-50A/GB-50A Centralized Controllers per BACnet interface PC

G-50A CENTRALIZED CONTROLLER SPECIFICATIONS

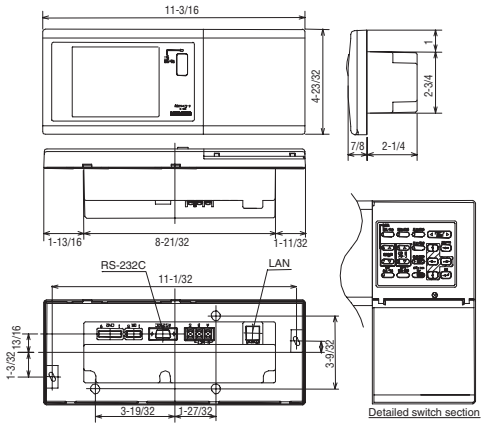
- Manages up to 50 indoor units in terms of monitoring, operation, scheduling (daily/weekly) and maintenance diagnostics. Units can be controlled individually, in a group or in a collective batch operation.
- Controls ON/OFF, operation mode selection (COOL, HEAT, AUTO, DRY, FAN), Temperature Setting and Airflow Direction.
- Permits or prohibits remote controller functions such as ON/OFF, Change Operation Mode, and Set Temperature.
- Scheduling: supports daily schedule (three ON/OFF settings) and weekly schedule (21 ON/OFF settings per week). Schedule functionality is expanded to 12 settings per day and 84 settings per week when licensed for operation via PC browser.
- Setback: programs setback by 0°F-18°F.
- Diagnostics: displays four-digit error code and error unit address for up to 50 units.
- Addressing: requires manual addressing using rotary dial switch to the M-NET communication bus (default address is 000).
- Wiring: requires power supply unit (PAC-SC50KUA) that supplies 12 VDC.
- Dimensions: 11-13/16" x 3-1/8" x 4-3/4"
- Expandability: RJ-45 Ethernet port supports optional interconnection directly to PC or to Local Area Network (LAN). PC browser functions and TG-2000 software functions require Mitsubishi Electric HVAC-issued software licenses for defined term.
- External input/output signals can be used for batch operations such as START/STOP and EMERGENCY STOP.

PAC-SC50KUA-F POWER SUPPLY SPECIFICATIONS

- Rated input voltage and current: 208V-230V; 0.25 A; 60Hz single-phase.
  Fuse: 2.0 A time-delay type.
- Output voltage/current:
  M-NET: DC24V 0.45A (Maximum Loading).
  DC Power supply: DC12V 0.2A (Maximum Loading).
- Dimensions: (HxWxD): 9-1/2" x 10-7/16" X 2-3/8"
- Weight: 5-1/8 lb.
- Indoor installation in control panel box.

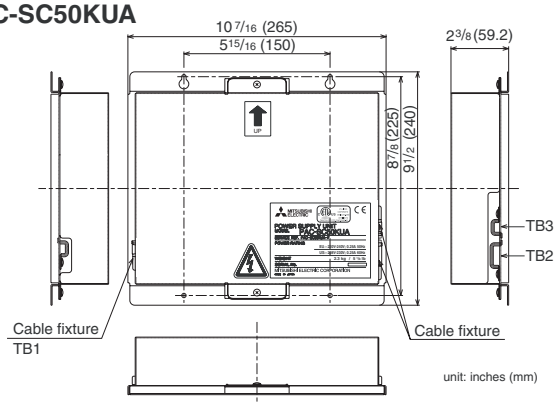
Model: G-50A Base (G-50A Base Package)

G-50A



Item	Detail
Product dimension	4-23/32 (H) × 11-13/16 (W) × 3-1/8 (7/8)(D) inches 120 (H) × 300 (W) × 79 (22)(D) mm
Weight	2.2 lbs. (1.0kg)
Power source	DC30V Supplied from M-NET transmission line. (Received from the power supply unit for transmission line or outdoor unit (TB3) through M-NET transmission line.)
Operating environment	Temperature: 32°~104°F (0~40°C) Humidity: 30~90%RH (No condensation allowed)
Material	ABS
External color	Cover section: white-gray (MUNSELL 4.48Y7.92/0.66) Liquid crystal surrounding section: medium-gray (DIC551)
Mounting method	Mount to a switch box for five pcs. (with cover, field supply). Transmission line should be non-polar two-wire and connected to transmission line for M-NET centralized control.

PAC-SC50KUA



Item	Detail	
Source power requirement	Rated input voltage and current	EU: ~ 220V - 240V; 0.25A/50Hz Single-phase US: ~ 208V - 230V; 0.25A/60Hz Single-phase
	Fuse: 2.0A Time-delay type (IEC127-2 S.S.5)	
Output voltage/current	M-NET : DC24V 0.45A (Maximum loading) DC power supply: DC12V 0.2A (Maximum loading)	
Load capacity	Number of the loading unit: G-50A Central Controller 1 unit	
Environmental condition	Temperature	Operating range 32 to 104˚F / 0 to 40˚C Storage range -4 to 140˚F / -20 to 60˚C
	Humidity	30 ~ 90%RH (No condensation)
Dimensions	9 1/2(H)×10 7/16(W)× 2 3/8(D) in / 240(H) × 265(W) × 59.2(D)mm	
Weight	5.1 lbs. / 2.3kg	
Installation environment	In the control panel box (indoor)	

TG-2000 COMPUTER REQUIREMENTS • SOFTWARE VERSION: 4.70 OR LATER

Item		Requirement	Recommended/Notes
PC		PC/AT interchangeable machine	Recommended: Dell, IBM, Compaq)
CPU		1-1000 Indoor Units: Pentium IV 1.8 GHz or faster 1001-2000 Indoor Units: Pentium IV 2.8 GHz or faster	Pentium IV 2.8 GHz or faster
OS		Windows XP Professional Windows 2000 Professional Service Pack 2	English version only
Memory		256 MB or more	512 MB or more
HDD	Standard	6 GB or more (2 GB or more of C-drive free space necessary)	4 GB or more of C-drive free space recommended. When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2 GB, 500 groups = 5 GB, 1000 groups = 10 GB, 2000 groups = 20 GB
	Wide Area	20 GB or more (Free space)	Standard: max 200 MB/site
Serial Port		1 port or more	Required when using RS-485 communication for WHM
LAN		10Base-T/100Base-TX	
Modem		56k modem or TA	Required for wide area mode for TG-2000
Storage Device		CD, Disk Drive, USB, etc.	Optional
Resolution		1024x768 or higher, 65536 colors or more	
Other		Computer must be dedicated for use TG-2000 Requires 24-hour constant operation Requires UPS	Requires 24-hour consant operation

G-50A/GB-50A COMPUTER REQUIREMENTS FOR WEB BROWSER • SOFTWARE VERSION: 2.70 OR LATER

Item		Requirement	Recommended/Notes
CPU		Pentium 133MHz or faster	Pentium 300MHz or faster
Browser	Windows	Microsoft Internet Explorer 5.0 or later Microsoft VM Ver 5.0 or later or Java plug in Ver 1.4.2 or later	You can check MicrosoftVM version by entering jview at DOS command prompt You can check the Java version from the "Java plug-in" in the control panel.
	Macintosh	Safari (with Mac OS X), Java Plug-in Version 1.4.2 or later	Check Java Plug-in Version at the [Help]-[Installed Plug-ins] on the Safari browser.
Memory		64 MB or more	128 MB or more
LAN		10BASE-T	
Resolution		1024x768 or higher, 65536 colors or more	
Other		Pointing device such as a mouse.	

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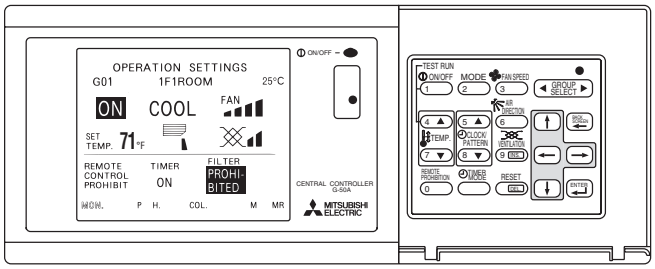
Model: G-50A-PS
(G-50A & Power Supply)

MITSUBISHI ELECTRIC

Job Name:

Drawing Reference:

Schedule No.



OPTIONAL SOFTWARE FEATURES INCLUDE

- SW-Mon: PC Monitoring enables building manager to monitor and operate all indoor units from a network PC's web browser for up to 50 units per G-50A.
- SW-Sch: PC Scheduling enables building manager to customize daily, weekly and annual schedules from a network PC's web browser for up to 50 units per G-50A. Schedules can be applied to a single indoor unit, a group of indoor units or collectively (batch) to all indoor units controlled by the G-50A.
- SW-Charge: Tenant Billing "Charge" calculates per tenant CITY MULTI energy usage in kWh and in monetary amount based on the energy consumption of the outdoor unit(s) divided among the associated indoor units. Requires TG-2000 software on a dedicated network PC connected to RS-485 Watt Hour Meters (WHM).
- SW-Email: Online Error Email Distribution when an error occurs on the CITY MULTI system monitored by the G-50A. The fault will be detected, and a detailed alert will be sent via Email to the necessary personnel.
- SW-Maint: Online Maintenance Tool software performs maintenance diagnostics via network PC and G-50A Centralized Controller. Does not require CMS-MNF-B converter/cable.
- SW-Pweb: Online Personal Web Browser allows individual user (up to 50) to control his/her zone conditioning via personal networked PC with or without a remote controller.
- SW-TG-2000A: TG-2000 Integrated System Software enables the building manager to control up to 40 G-50A Centralized Controllers with a maximum of 2,000 indoor units across multiple CITY MULTI outdoor units. Requires a dedicated networked PC and G-50A software licenses (per G-50A per function).
- SW-BACnet: BACnet interface option that allows BMS and EMS to integrate to CITY MULTI. Requires field-supplied dedicated network PC with two LAN ports. Maximum of 10 G-50A/GB-50A Centralized Controllers per BACnet interface PC

G-50A CENTRALIZED CONTROLLER SPECIFICATIONS

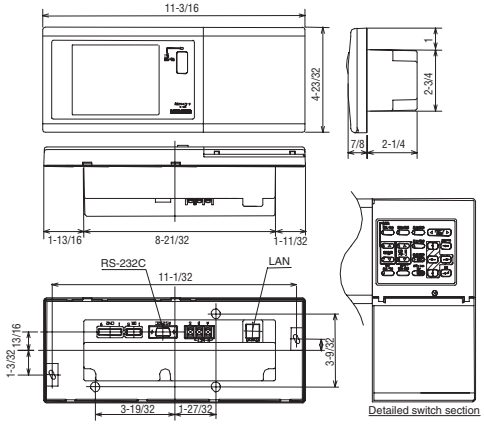
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- Controls ON/OFF, operation mode selection (COOL, HEAT, AUTO, DRY, FAN), Temperature Setting and Airflow Direction.
- Permits or prohibits remote controller functions such as ON/OFF, Change Operation Mode, and Set Temperature.
- Scheduling: supports daily schedule (three ON/OFF settings) and weekly schedule (21 ON/OFF settings per week). Schedule functionality is expanded to 12 settings per day and 84 settings per week when licensed for operation via PC browser.
- Setback: programs setback by 0°F-18°F.
- Diagnostics: displays four-digit error code and error unit address for up to 50 units.
- Addressing: requires manual addressing using rotary dial switch to the M-NET communication bus (default address is 000).
- Wiring: requires power supply unit (PAC-SC50KUA) that supplies 12 VDC.
- Dimensions: 11-13/16" x 3-1/8" x 4-3/4"
- Expandability: RJ-45 Ethernet port supports optional interconnection directly to PC or to Local Area Network (LAN). PC browser functions and TG-2000 software functions require Mitsubishi Electric HVAC-issued software licenses for defined term.
- External input/output signals can be used for batch operations such as START/STOP and EMERGENCY STOP.

PAC-SC50KUA-F POWER SUPPLY SPECIFICATIONS

- Rated input voltage and current: 208V-230V; 0.25 A; 60Hz single-phase.
  Fuse: 2.0 A time-delay type.
- Output voltage/current:
  M-NET: DC24V 0.45A (Maximum Loading).
  DC Power supply: DC12V 0.2A (Maximum Loading).
- Dimensions: (HxWxD): 9-1/2" x 10-7/16" X 2-3/8"
- Weight: 5-1/8 lb.
- Indoor installation in control panel box.

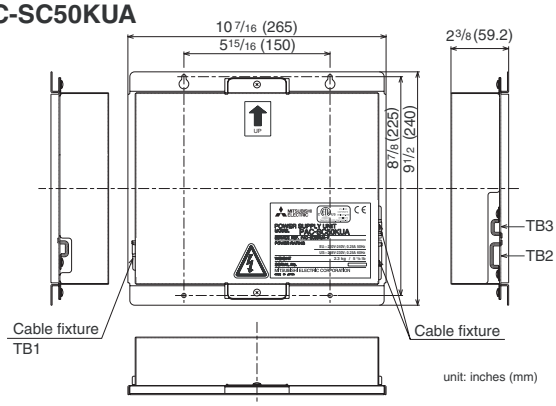
Model: G-50A-PS (G-50A & Power Supply)

G-50A



Item	Detail
Product dimension	4-23/32 (H) × 11-13/16 (W) × 3-1/8 (7/8)(D) inches 120 (H) × 300 (W) × 79 (22)(D) mm
Weight	2.2 lbs. (1.0kg)
Power source	DC30V Supplied from M-NET transmission line. (Received from the power supply unit for transmission line or outdoor unit (TB3) through M-NET transmission line.)
Operating environment	Temperature: 32°~104°F (0~40°C) Humidity: 30~90%RH (No condensation allowed)
Material	ABS
External color	Cover section: white-gray (MUNSELL 4.48Y7.92/0.66) Liquid crystal surrounding section: medium-gray (DIC551)
Mounting method	Mount to a switch box for five pcs. (with cover, field supply). Transmission line should be non-polar two-wire and connected to transmission line for M-NET centralized control.

PAC-SC50KUA



Item	Detail	
Source power requirement	Rated input voltage and current	EU: ~ 220V - 240V; 0.25A/50Hz Single-phase US: ~ 208V - 230V; 0.25A/60Hz Single-phase
	Fuse: 2.0A Time-delay type (IEC127-2 S.S.5)	
Output voltage/current	M-NET : DC24V 0.45A (Maximum loading) DC power supply: DC12V 0.2A (Maximum loading)	
Load capacity	Number of the loading unit: G-50A Central Controller 1 unit	
Environmental condition	Temperature	Operating range 32 to 104˚F / 0 to 40˚C Storage range -4 to 140˚F / -20 to 60˚C
	Humidity	30 ~ 90%RH (No condensation)
Dimensions	9 1/2(H)×10 7/16(W)× 2 3/8(D) in / 240(H) × 265(W) × 59.2(D)mm	
Weight	5.1 lbs. / 2.3kg	
Installation environment	In the control panel box (indoor)	

TG-2000 COMPUTER REQUIREMENTS • SOFTWARE VERSION: 4.70 OR LATER

Item		Requirement	Recommended/Notes
PC		PC/AT interchangeable machine	Recommended: Dell, IBM, Compaq)
CPU		1-1000 Indoor Units: Pentium IV 1.8 GHz or faster 1001-2000 Indoor Units: Pentium IV 2.8 GHz or faster	Pentium IV 2.8 GHz or faster
OS		Windows XP Professional Windows 2000 Professional Service Pack 2	English version only
Memory		256 MB or more	512 MB or more
HDD	Standard	6 GB or more (2 GB or more of C-drive free space necessary)	4 GB or more of C-drive free space recommended. When using the trend function, the drive used for automatic output must have the following free space according to the number of groups. 200 groups = 2 GB, 500 groups = 5 GB, 1000 groups = 10 GB, 2000 groups = 20 GB
	Wide Area	20 GB or more (Free space)	Standard: max 200 MB/site
Serial Port		1 port or more	Required when using RS-485 communication for WHM
LAN		10Base-T/100Base-TX	
Modem		56k modem or TA	Required for wide area mode for TG-2000
Storage Device		CD, Disk Drive, USB, etc.	Optional
Resolution		1024x768 or higher, 65536 colors or more	
Other		Computer must be dedicated for use TG-2000 Requires 24-hour constant operation Requires UPS	Requires 24-hour consant operation

G-50A/GB-50A COMPUTER REQUIREMENTS FOR WEB BROWSER • SOFTWARE VERSION: 2.70 OR LATER

Item		Requirement	Recommended/Notes
CPU		Pentium 133MHz or faster	Pentium 300MHz or faster
Browser	Windows	Microsoft Internet Explorer 5.0 or later Microsoft VM Ver 5.0 or later or Java plug in Ver 1.4.2 or later	You can check MicrosoftVM version by entering jview at DOS command prompt You can check the Java version from the "Java plug-in" in the control panel.
	Macintosh	Safari (with Mac OS X), Java Plug-in Version 1.4.2 or later	Check Java Plug-in Version at the [Help]-[Installed Plug-ins] on the Safari browser.
Memory		64 MB or more	128 MB or more
LAN		10BASE-T	
Resolution		1024x768 or higher, 65536 colors or more	
Other		Pointing device such as a mouse.	

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.

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).

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