SAMSUNG

SUBMITTAL MIM-D01AUN

Samsung DMS 2.5 (Data Management Server)

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Features

Easy Control & Monitoring Through Web Browser

- Individual/Group control of up to 256 indoor units
- Operation mode, temperature setting, airflow direction, fan speed, temperature restriction settings, unoccupied mode setting, and discharge air temperature setting (for applicable duct unit models).
- Restrict use of wireless/wired remote controllers, mode, temperature, and set point.
- Outdoor and indoor unit cycle monitoring
- Convenient digital display allows for easy initial set up
- SD memory card slot for data storage and software updating (daily automatic backup, SD card purchased separately)
- LAN connection for upper level control options
- Available sophisticated control logic allows programming outputs based on various system inputs
- Dynamic security management
- Operation and error history management
- Maximum current control of outdoor unit(s) to limit current (50% - 100% of design current) adjustable at outdoor unit or MIM-D01AUN (does not apply to all system models)
- Supports multiple user access (different usernames and access levels)
- Various user management level settings (HVAC system access, gateway permission access)
- Unoccupied room control settings adjustment capability (for compatible units)

Web Server Function

- Remote control with a public IP address via internet connection
- No management software required – PC-independent management through web browser (optimized for Internet Explorer)
- Multiple user accounts can be setup with the ability to specify what unit(s) each individual can monitor and control and what level of control permission is allowed.
- 2D Floorplan layout option for simplified project viewing.

Schedule Control Function Through Web Browser

- Up to 256 schedule settings
- Weekly and daily schedule setting
- Wireless/wired remote controller restriction setting
- Digital outputs can be incorporated into scheduling

Advanced Programmable Control Logic Setting

- Specify various system control point inputs (indoor units, outdoor units, DI, DO) and operators (=, >, <, ≤, ≥, ≠) to manipulate system operation (indoor units, outdoor units, DI, DO) based on the status of the specified variables.

Advanced Heat Pump Auto Changeover Logic

- Optional "weighted averaging" or "representative" setting for heat pump systems to provide optimal auto changeover while in Auto mode.

External Contact Interface

- Full indoor unit control with simple contact input (emergency/lock)
- 8 additional digital input terminals for monitoring options
- State output (operation/error) for synchronous control
- 6 general purpose outputs to control other components (on: 12VDC out; off: no voltage)
- Digital inputs and digital outputs can be incorporated into control logic
- Digital outputs can be incorporated into control logic and daily schedules to control other devices

Energy Management / Power Distribution Function

- Ability to monitor, track, and query energy use from indoor unit(s) and systems with MIM-B16 or MIM-B16N and electricity meter interface module (purchased separately, requires 3rd party watt-hour meters with pulse output).
- When used with SNET 3 software, detailed PDF report generation is possible
- User defined daily time periods for energy use reports to accommodate on/off peak energy billing.
- Export energy usage and other data to Excel file

History Management

- Storage of all operation commands from gateway and other system controls (saves to SD card purchased separately).
- Storage of all error events for review (saves to SD card purchased separately).
- Storage of all operation logic control events (saves to SD card purchased separately).
- Error alerts via email that contain: error code, error explanation, units affected, time and date of error occurrence, and error status.

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

www.SamsungHVAC.com
888-699-6067

Specifications

- MIM-D01AUN shall monitor status and control Samsung DVM S, CAC, FJM, RAC, ERV (MIM-N10 interface module adapter required), and DVM Chiller systems

- MIM-D01AUN shall monitor status and control Samsung systems only via web client or Samsung SNET 3 software.

- Connection of FJM and DVM Plus III equipment or earlier models will require a communication interface module adapter (MIM-N01)

- DC 12V, 3A power provided by AC/DC adapter (input 110-240VAC 50/60Hz, provided with MIM-D01AUN)

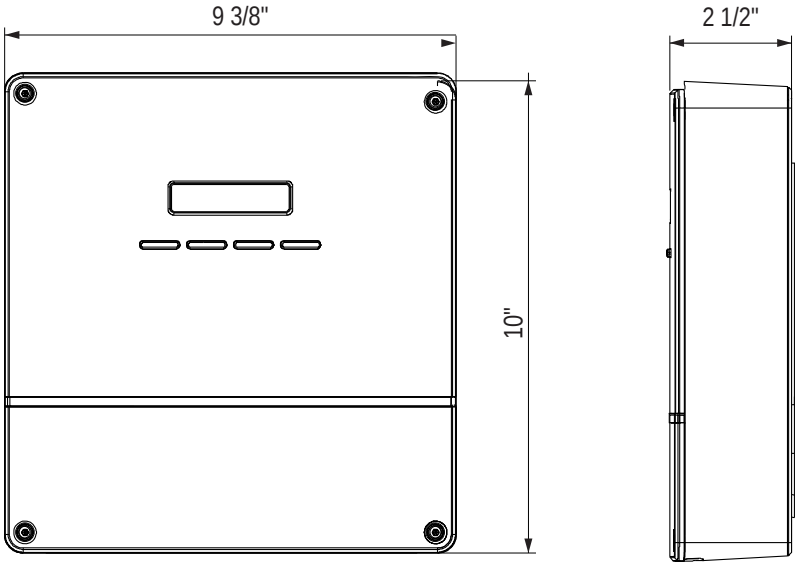
- Communication connection via ON/OFF Controller(s) (MCM-A202DN) and direct connection to DVM S series (AM*********/AA, AG*********/AA and CAC (AC0********/AA) outdoor units

- 16 AWG X 2 shielded cable between Samsung equipment and controls is recommended for proper operation

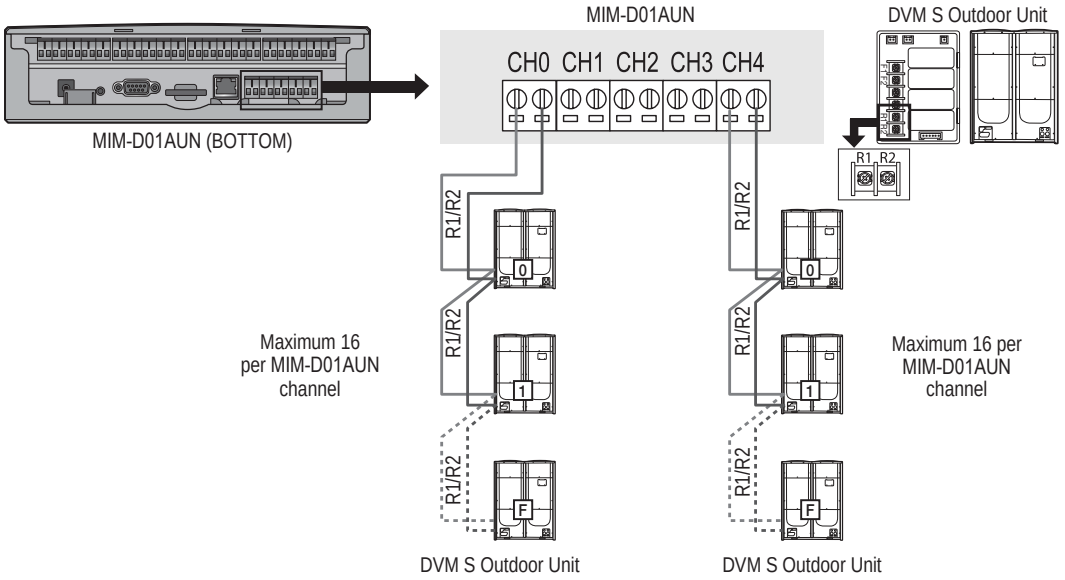
- Maximum number of RS485 connections:
  - Maximum 75 ON/OFF Controllers (MCM-A202DN) to 1 MIM-D01AUN
  - Maximum 15 ON/OFF Controllers (MCM-A202DN) to a single MIM-D01AUN channel
  - Maximum 75 Touch Central Controllers (MCM-A300N) to 1 MIM-D01AUN
  - Maximum 15 Touch Central Controllers (MCM-A300N) to a single MIM-D01AUN channel
  - Maximum 16 systems to a single channel (5 total)
  - Maximum 80 systems connected direct (5 ports, 16 systems per port), 256 through ON/OFF Controllers (MCM-A202DN)
  - Maximum 16 Chiller FCU Interface Modules (MIM-F10N) to a single channel (5 total, each MIM-F10N supports up to 16 MIM-F00N FCU Kits)
  - Maximum 80 Chiller FCU Interface Modules (MIM-F10N) connected direct (5 ports, 16 X MIM-F10N per port)
  - Maximum 128 indoor units on a single MIM-D01AUN channel (HR MCU, air handlers, and Samsung ERV's)
  - Maximum 256 indoor units (HR MCU, air handlers, and Samsung ERV's) to one MIM-D01AUN
  - Maximum 8 MIM-B16 Energy Meter Interface Modules per MIM-D01AUN (must connect to CH4 (COM5) on gateway)
  - Maximum 8 MIM-B16N Energy Meter Interface Modules per MIM-D01AUN (can connect to same channel as DVM S outdoor units on gateway)

- Digital inputs and outputs:
  - DI terminals (X 10): Dry input (0V)
  - DO terminals (X 8): 12VDC, maximum 200 mA

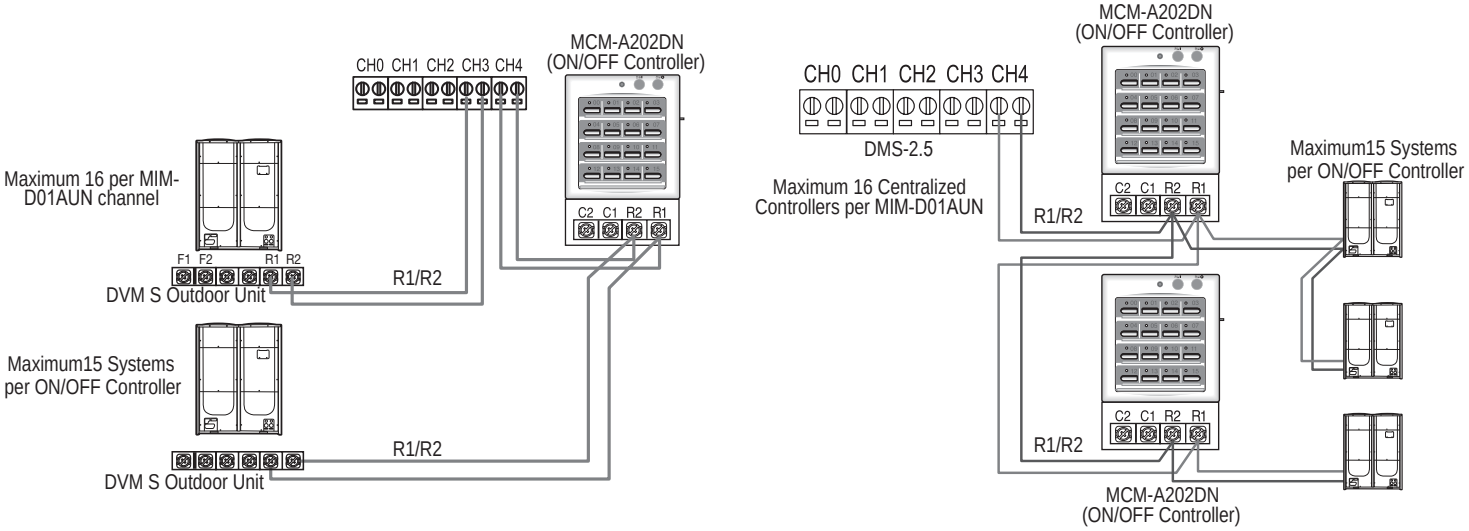
- Refer to controls Technical Data Book for more information found at www.samsunghvac.com.



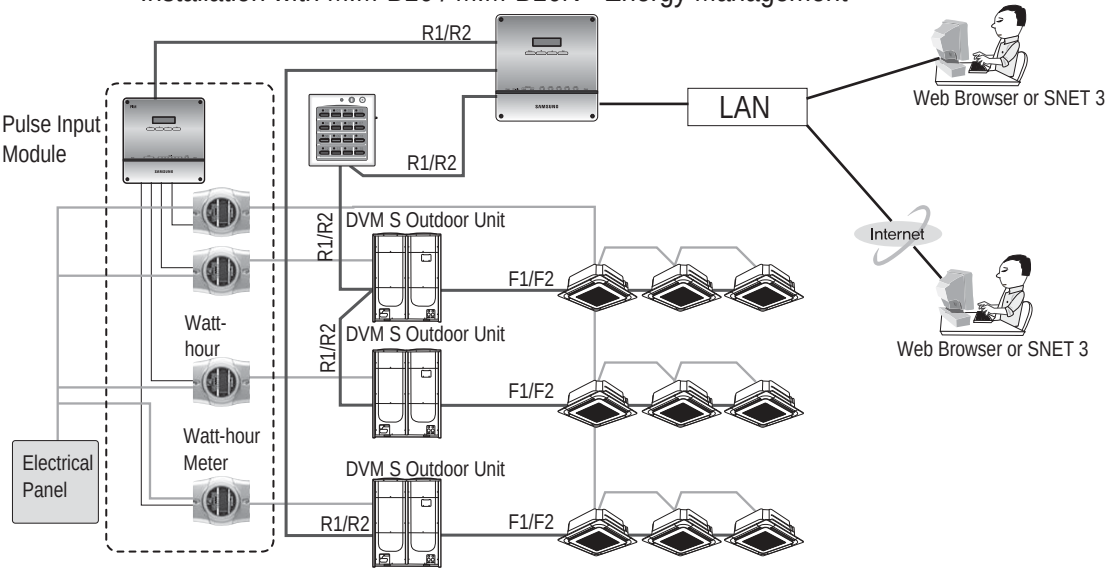
Installation with Direct Connection to DVM S Outdoor Units



Installation with Centralized Controller and Direct Outdoor Connection



Installation with MIM-B16 / MIM-B16N - Energy Management



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The diagrams on this page are for reference only. Refer to installation manual for wiring and installation instructions. Other configurations may be possible.