**Intelligent Manager III**

The A/C management system that offers powerful functions, yet still gives simple navigation for any user.

**Intelligent Touch Controller**

Communication capabilities via a Web browser further expand air conditioning control possibilities.

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**Using interface**

1. Once a month, adjust the clock of the interface.
2. Daikin's unique R.P.D. system estimates the power consumption of each individual indoor unit based on data communicated from indoor units and compared to the power consumption of an air conditioning installation with a standard setup. Note that R.P.D. is not a "gauge" adapted to the methods of measuring power consumption in each country. All countries differ in the ways tenant billing systems are implemented depending on their respective legal systems. Data obtained by R.P.D. is for reference only and should not be used for official financial transactions.

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**RoHS Directive**

The RoHS (Restriction of Hazardous Substances in electrical and electronic equipment) Directive is an environmental directive enacted to regulate the use of designated chemical substances (lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls and polybrominated diphenyl ethers) in electrical equipment. All household products subject to this Directive and sold in Europe from July 1, 2006 are legally bound to comply with the RoHS Directive.
Connect VRV to your BMS via BACnet® or LonWorks® using Daikin’s integrated control system solutions.

Compatible with BACnet® and LonWorks®, the two leading open network communication protocols, Daikin offers interfaces that provide a seamless connection between VRV and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks.

Open network
BACnet® LonWorks®

Air conditioning control systems can be realized with little equipment and lower costs.
Simple, direct connections make setup quick and easy.
Dedicated interfaces enhance VRV control.

Providing flexible control and monitoring capability that features linked operation with other systems.
Units can be added freely and easily to expand the number of control points.
Other systems such as those for fire and crime prevention can be easily interlocked with Daikin’s unit.

Daikin air conditioning and control systems help you set up an open network.

Typical BACnet® application

Typical LonWorks® application
Seamless connection between VRV® and BACnet® open network protocol.

Functions of operating system version 3.0

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COV (Change of Value)</td>
<td>Reduces the need for manual entry of device information or any change.</td>
</tr>
<tr>
<td>Property array index</td>
<td>Increases efficiency in managing engineering data and reduces programming time.</td>
</tr>
<tr>
<td>Segmented requests</td>
<td>Enables efficient management of requests for a large number of indoor units.</td>
</tr>
<tr>
<td>Property array index</td>
<td>Enhances efficiency in managing engineering data and reduces programming time.</td>
</tr>
<tr>
<td>BACnet Object List</td>
<td>Can be read automatically with this index for efficient object management.</td>
</tr>
</tbody>
</table>

Specifications of Communication

<table>
<thead>
<tr>
<th>Interface</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACnet®/IP</td>
<td>Supports BACnet/IP in accordance with ISO 16484-5 (Building automation and control systems)</td>
</tr>
</tbody>
</table>

Support BACnet/IP in accordance with ISO16484-5 (Building automation and control systems).

Supports BACnet Message 3.0 for BACnet®/IP communication for BACnet® system.

Note: Does not support IEEE802.3 protocol for BACnet.

RoHS compliant


ISO 16484-5

ISO 16484-5 compliant. We have been making efforts to facilitate the transition to using RoHS compliant products by BACnet communication for BMS system.

Maximum of 10 outdoor units

The maximum number of outdoor units supported is 10.

Dimensions (W x H x D)

275 x 263 x 81.5 (mm)

Insulation resistance

50 MΩ or more by DC 500 megohmmeter

Operable temperature range

–15°C to 60°C

–10°C to 50°C

Power supply fluctuation

Maximum 20W

Rated power supply

Single phase AC 100 to 240 ±10% at 50/60Hz

Transmission

B-ASC(ASHRAE135-2001)

Weight

3.0 kg

Imbedded in DMS502B51

Note: Optional Di board (DAM412B51) is required for the PPD system.

DMS502B51 Specification

This unit provides information for VRV through BACnet®/IP. The items to monitor and control air conditioners from BACnet for BMS system.

Monitoring and controlling of A/C

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitoring/Operation/Setting</td>
<td>Monitors and controls air conditioners remotely.</td>
</tr>
<tr>
<td>Filter Limit and Reset</td>
<td>Checks whether there is a use limit for the respective filters and resets the sign as necessary.</td>
</tr>
<tr>
<td>Room Temperature Setting</td>
<td>Sets the temperature of the respective air conditioners and monitors the setting results.</td>
</tr>
<tr>
<td>Operation Mode Setting</td>
<td>Sets the operation mode (cooling, heating, ventilation or auto mode) and monitors the setting results.</td>
</tr>
<tr>
<td>ON/OFF Operation</td>
<td>Monitors whether air conditioners are operating normally and, if not, sends out an alarm sign.</td>
</tr>
<tr>
<td>Heater Operation Status</td>
<td>Monitors whether heaters in the air conditioners are operating properly.</td>
</tr>
<tr>
<td>Compressor Status</td>
<td>Monitors whether compressors in outdoor units that are connected to the indoor units are operating properly.</td>
</tr>
<tr>
<td>Thermostat Status</td>
<td>Monitors whether the thermostat in the air conditioner is operating properly.</td>
</tr>
<tr>
<td>Error Code</td>
<td>Monitors error codes and displays them accordingly.</td>
</tr>
<tr>
<td>Alarm Sign</td>
<td>Monitors alarm signs and displays them accordingly.</td>
</tr>
</tbody>
</table>

Series and components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di board</td>
<td>Optional board (DAM412B51) is required for the PPD system.</td>
</tr>
</tbody>
</table>

Optional Di board (DAM412B51) is required for the PPD system.
Facilitating the network integration of VAV and LONWORKS®

Open network integration
For those who want to connect to LONWORKS® network equipment, the LONWORKS® network is recognized as the de facto standard for the network equipment.

Typical LONWORKS® applications
- Building control
- Local energy management
- Facility HVAC, security

Reduction in engineering and cost of wiring
The open protocol specification gives local system integrators complete design freedom. A new hardware corresponding to RoHS compliance.

Connectable to up to 64 groups
A new gateway that handles the transition to using RoHS-compliant products.

A neat hardware corresponding to RoHS compliance
The Open Network Integration chart reduces the engineering time and costs.

This unit can be connected to up to 64 groups.

For details, please consult your Daikin representative.