

LONWORKS® Networks Compatible Gateway

DMS-IF

Network Solution



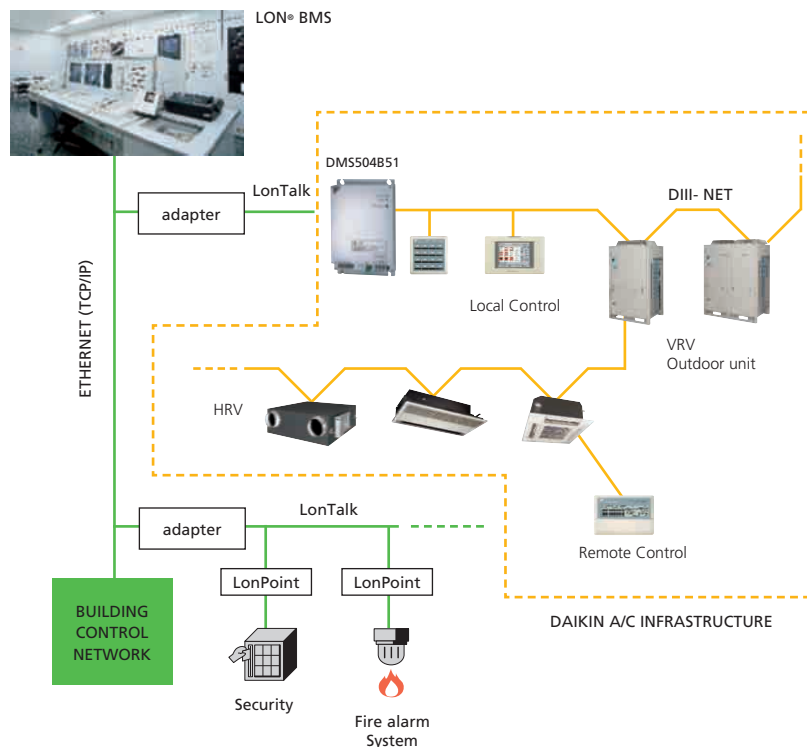
*Open network integration
of VRV monitoring and
control functions into
LonWorks® networks*

LonWorks® is a registered trademark of Echelon® company.

Main features

1 OPEN NETWORK INTEGRATION

Daikin has released a new adapter that requires no additional interfaces nor gateways for connection to LonWorks® networks equipment and building control systems. LonWorks® networks are recognised worldwide as the de facto standard within the building controls industry. LON® bus makes it possible to control access, energy management, fire/life/safety, HVAC and lighting etc.



2 QUICK AND EASY INSTALLATION

The open protocol specification gives local system integrators complete design freedom. Also, the ability to combine individual items of equipment into a LonWorks® networks reduces the time and costs required for wiring work

3 UNLIMITED SITE SIZE

The new network adapter can be connected to up to 64 groups, depending on the number of control and monitoring functions used :

$$300 > (\text{number of indoor units}) \times (\text{number of NV})$$

Maximum value is set by the LON® BMS manufacturer: in this case 300

Number of connected indoor units: 1 ~ 64.

NV: Number of LON® network variables

Please consult your Daikin representative for details.

4 RoHS COMPLIANCE

Restriction of Hazardous Substances in electrical and electronic equipment (2002/95/EC)

Hazardous substances include Lead (Pb), Cadmium (Cd), Hexavalent Chromium (Cr6+), Mercury (Hg), Polybrominated biphenyls (PBB), Polybrominated diphenylether (PBDE).

Although RoHS regulations are only applicable to small and large household equipment, Daikin environmental policy nevertheless ensures that VRV VIII will be totally in line with RoHS.

5 CONTROL AND MONITORING FUNCTIONS

CONTROL

- ON/OFF command
- Operation mode setting
- Temperature setting
- Fan air flow setting
- Filter sign reset
- Forced thermostat shut off setting
- Remote ON/OFF control rejection
- Remote operation mode control rejection
- Remote temperature control rejection setting
- Forced system shutdown setting
- Timer setting

MONITORING

- ON/OFF and error status report
- Operation mode status report
- Temperature setting report
- Room temperature report
- Fan air flow setting report
- Filter sign report
- Error report
- Malfunction code report
- Thermostat status report
- Forced thermostat shut off setting report
- Remote ON/OFF control rejection report
- Remote operation mode control rejection report
- Remote temperature setting rejection report
- Forced system shutdown setting report
- Unit transmission status



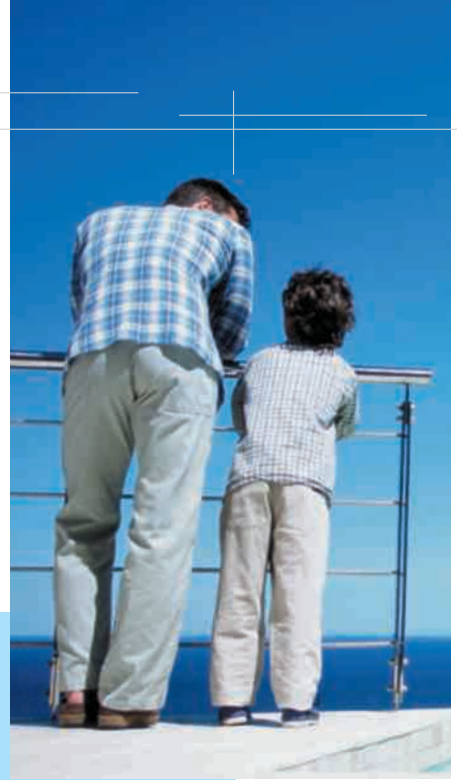
Specifications

ITEM	DESCRIPTION	
LonWorks® networks compatible Gateway	DIMS504B51	
Power supply (auto ranging)	1 ~, AC100 ~ 240V, 50Hz	
Dimensions (HxWxD)	mm	260x168x50
Weight	kg	1.5
Power consumption	Max. 5W	
Operation range	-10 to 50°C	
Storage temperature range	-20 to 60°C	
Humidity	Up to 95 % (no condensation)	
Protocol	LonTalk®	
Transmission speed	78kbps	
Topology	Free topology	
Transmission medium	Twisted pair wire	
Installation method	Inside switch boards	
Contact input	Forced OFF x 1	

Accessories

ITEM	DESCRIPTION	
Interface adapters	KRP928A2S	For connection to Split unit
	DTA102A52	For connection to R-22/R-407C Sky Air units
	DTA112B51	For connection to R-410A Sky Air units

Environmental Awareness



AIR CONDITIONING AND THE ENVIRONMENT

Air conditioning systems provide a significant level of indoor comfort, making possible optimum working and living conditions in the most extreme climates.

In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, some manufacturers including Daikin have invested enormous efforts in limiting the negative effects associated with the production and the operation of air conditioners.

Hence, models with energy saving features and improved eco-production techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.

For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard.

ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin units comply with the European regulations that guarantee the safety of the product.

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VRV products are not within the scope of the Eurovent certification programme

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