

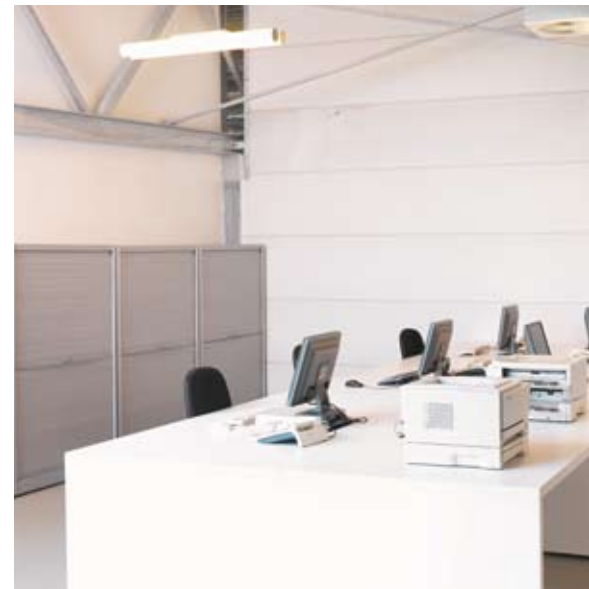


OPEN NETWORK INTEGRATION  
OF VRV<sup>®</sup> MONITORING AND  
CONTROL FUNCTIONS INTO  
LONWORKS NETWORKS

NETWORK SOLUTIONS



**LonWorks Interface**





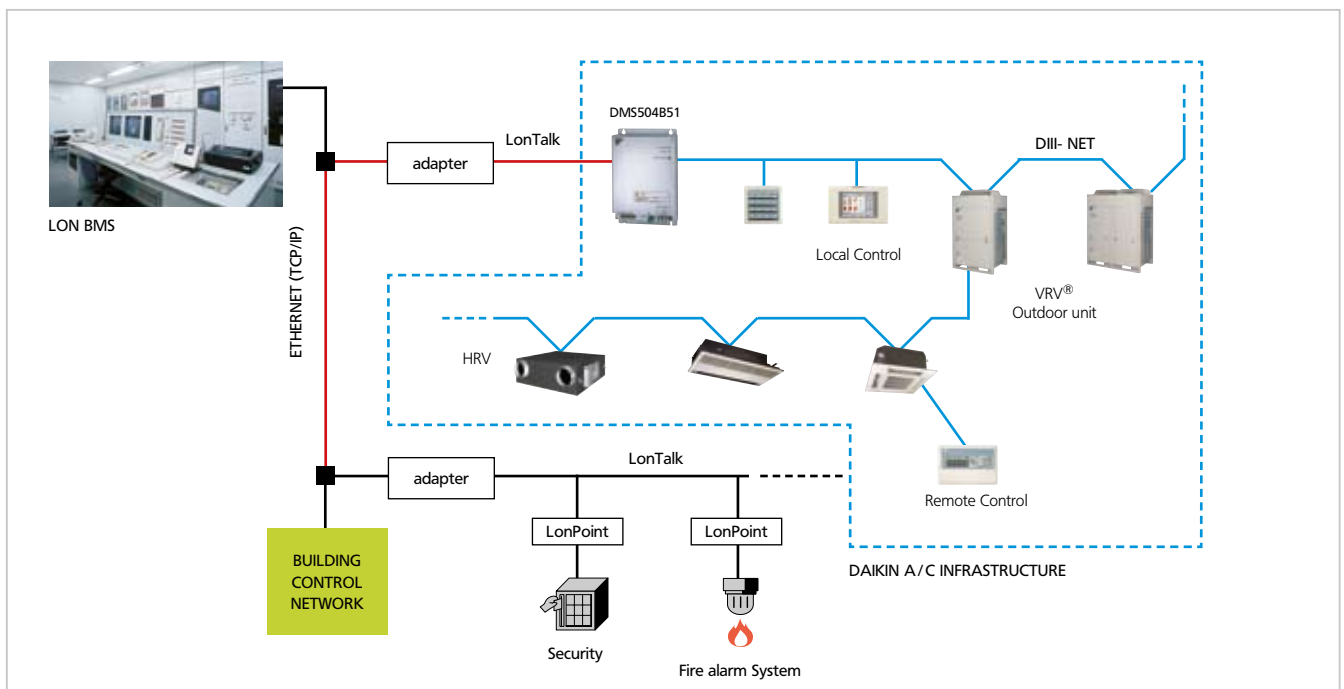
# MAIN FEATURES

## 1. OPEN NETWORK INTEGRATION

> The Daikin LonWorks adapter requires no additional interfaces 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 BMS 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. Moreover, 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 network adapter can be connected to up to 64 groups, depending on the number of control and monitoring functions used:

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

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

Number of connected indoor units: 1 ~ 64.

SNVT: 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's environmental policy nevertheless ensures that VRV®III 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 setting control rejection
- > Forced OFF setting
- > Subgroup address rejection setting

#### Monitoring

- > ON/OFF 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 setting rejection report
- > Remote control operation mode setting rejection report
- > Remote control temperature setting rejection report
- > Forced OFF setting report
- > Communication status report

## SPECIFICATIONS

ITEM	DESCRIPTION	
LonWORKS interface	DMS504B51	
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	KRP928B2S	For connection to Split units
	DTA102A52	For connection to R-22/R-407C Sky Air units
	DTA112B51	For connection to R-410A Sky Air units





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.

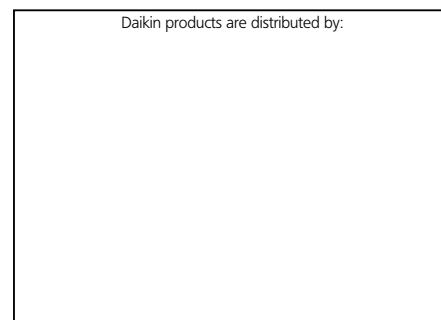
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Daikin units comply with the European regulations that guarantee the safety of the product.

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

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