



Network Solution

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

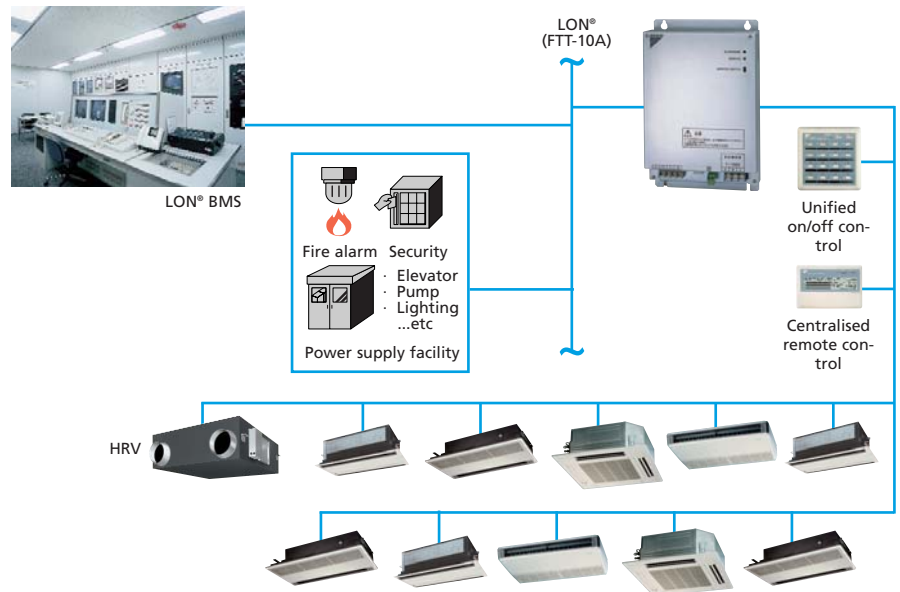


LONWORKS® Networks Compatible Gateway

M 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 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

5 Specifications

Item	Description
LONWORKS® networks compatible Gateway	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

6 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

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