

# HA

ome automation

## INTERFACE ADAPTOR DTA116A51

Connects *VRV* system to home automation system

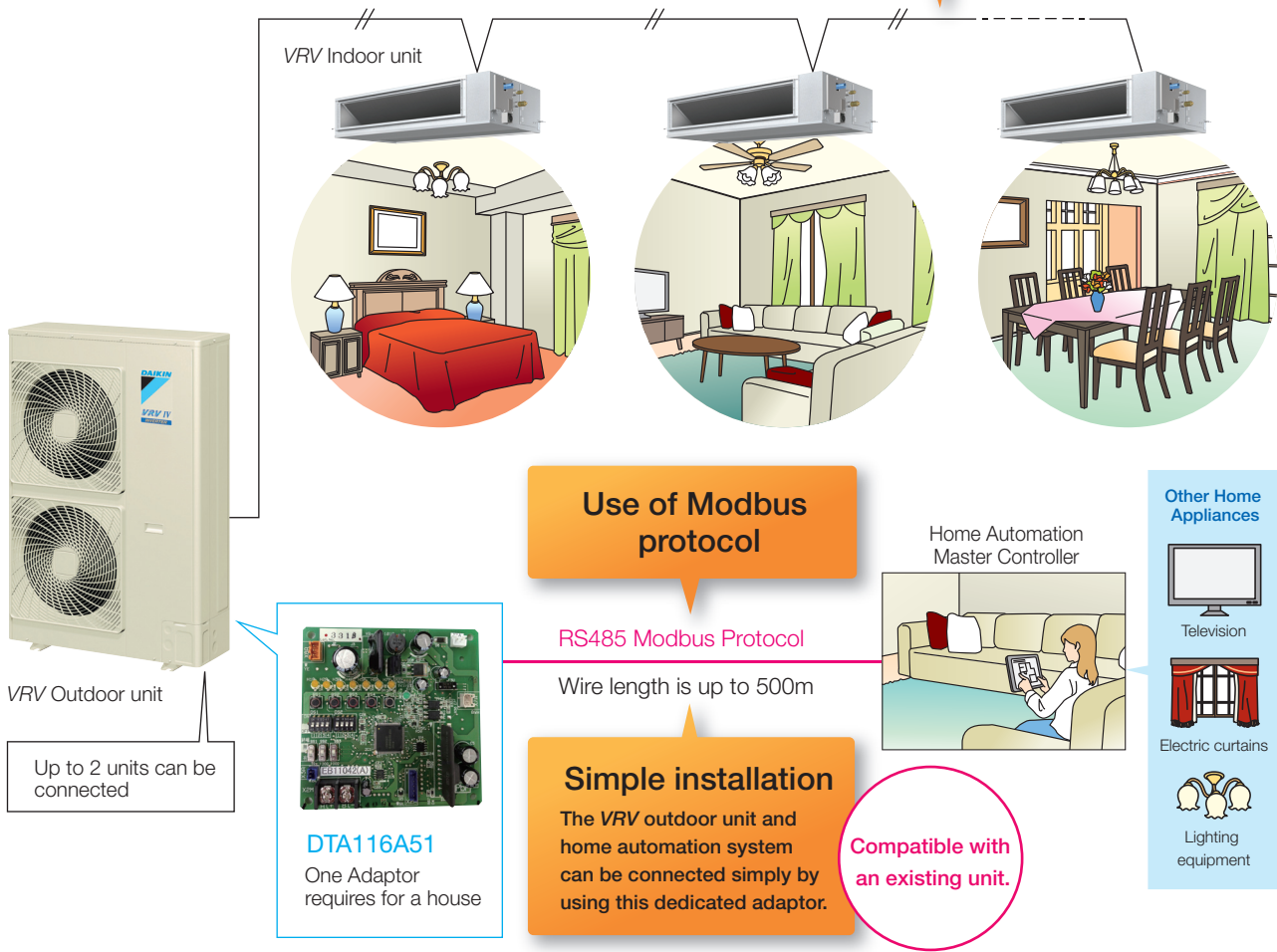


# The VRV system can be operated from the home automation system.

Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.

## Image to use Home Automation Interface Adaptor DTA116A51

Up to 16 indoor units can be individually controlled.



## Functions

### ● Monitor

On/Off	On/Off status of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Fan direction	Swing, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Forced off status	Forced off status of indoor units
Error	Malfunction, Warning with Error code
Filter sign	Filter sign of indoor units
Communication status	Communication normal/error of indoor units

### ● Control

On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	Reset filter sign of indoor units

### ● Retrieve system information

Connected indoor units	DIII-NET address of connected indoor units can be retrieved.
Indoor unit capabilities	Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved.

## Specifications of DTA116A51

Connection	DIII-NET (F1F2)
Protocol	Modbus (RS485)
Connectable indoor units	Up to 16 VRV indoor units
Connectable outdoor units	Up to 2 VRV outdoor units
Installation place	Outdoor unit
Power supply	Supply from outdoor unit PCB

## Operating conditions

Power supply	DV16V (+10% , -5%)
Operating temperature limit	-20 to 65 °C
Operating humidity limit	0 to 95% Non Condensing
Storage temperature range	-25 to 75 °C
Mass	Approximately 80g
Dimensions	100 × 100mm

## Communication specifications

Communication protocol	Modbus RTU
Communication speed	9600/19200bps
Stop bit	1/2bit
Parity	odd/even/none
Data length	8bit
Modbus address range	1 to 15

## Compatible models

Type	Model name		
VRV IV *	Heat Pump	50Hz	RXYQ-TY1A(E),RXYQ-TY1(E),RXYQ-TRY6
		60Hz	RXYQ-TTJU,RXYQ-TYDN,RHXYQ-AYL,RHXYQ-ATL
	Cooling Only	50Hz	RXQ-TY1A(E),RXQ-TY1(E),RXQ-TY14(E),RXQ-TY1S(E)
		60Hz	RXQ-TYL(E)
VRV IV -S	Heat Pump	50Hz	RXYMQ-AVE,RXYMQ-AV4A,RXYMQ-AY1
		60Hz	RMXYQ-AVL
	Cooling Only	50/60Hz	RXMQ-AVE
VRV III	Heat Pump	50Hz	RXYQ-PAY1(E),RXYQ-PAYC(E)
		60Hz	RXYQ-PAYL(E),RXYQ-PTL(E),RXYQ-PYL(E),RXYQ-PTLT(E),RHXYQ-SYL
	Cooling Only	50Hz	RXQ-PAY1
VRV III-S	Heat Pump	50Hz	RXYMQ-PV4A
		60Hz	RXYMQ-TVET,RXYMQ-TYLT,RXYMQ-PVJU,RXYMQ-PVET
		50/60Hz	RXYMQ-PVE
	Cooling Only	50/60Hz	RXMQ-PVE
VRV III-Q	Heat Recovery	50Hz	RQCEQ-PY1

\* Mounting plate (KKS26B1) is required to install DTA116A51.

• This adaptor can be used for other VRV Systems by preparing adaptor installation place and 16 VDC power supply for the adaptor.

## Application of DTA116A51

VRV Smart phone Control System can be realized by SVMPR1 which is a new product to utilize DTA116A51.

Just add SVMPR1





**Warning**



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
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