AIRSTAGE™

Modbus Convertor for VRF

Max. controllable
100 Outdoor units

Max. controllable
128 Indoor units

Modbus Convertor

Max. controllable
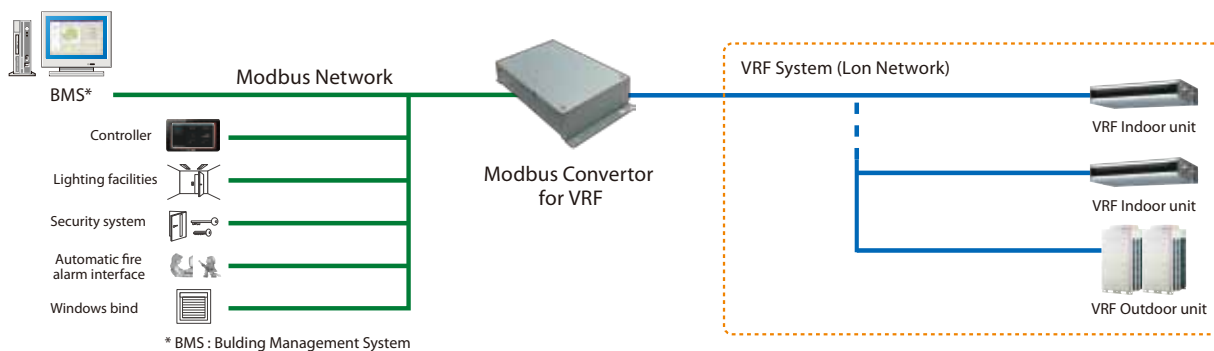**9** units per 1 VRF

UTY-VMGX

VRF System can be integrated with the Building management system supported by Modbus.

Feature

The Solution for integrating VRF Systems into small and medium sized buildings by Modbus method.

Modbus Network

BMS*

Controller

Lighting facilities

Security system

Automatic fire alarm interface

Windows bind

* BMS : Bulding Management System

Modbus Convertor for VRF

VRF System (Lon Network)

VRF Indoor unit

VRF Indoor unit

VRF Outdoor unit

Feature

Connectable MAX 9

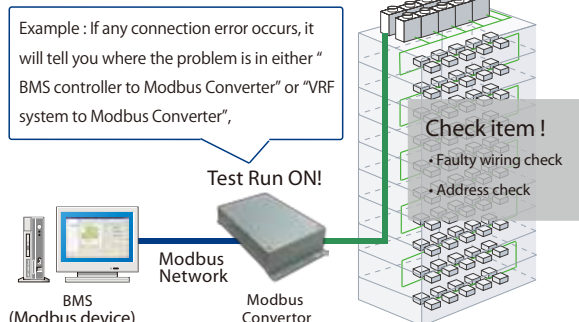Up to 9 converters can be connected to a VRF network.
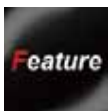The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.

Hotel — Tenant A

Office & Lounge — Tenant B

Restaurant — Tenant C

Lobby
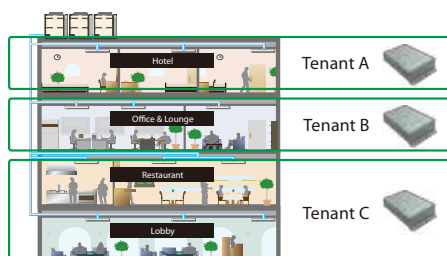
Feature

Traceability of sources of connection error

It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Example : If any connection error occurs, it will tell you where the problem is in either " BMS controller to Modbus Converter" or "VRF system to Modbus Converter",

Test Run ON!

BMS (Modbus device)

Modbus Network

Modbus Convertor

Check item !
• Faulty wiring check
• Address check
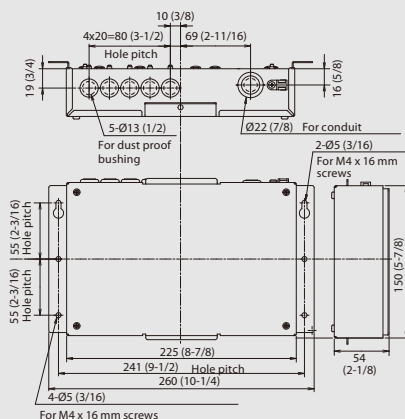
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Functions for operations and monitoring

The following functions can be done with Modbus Convertor .

Item	Function
Indoor Unit Control (Individual / Batch)	ON/OFF Command
	Operation Mode Setting
	Temperature Setting
	Airflow Mode Setting
	Set Point Temperature Limit Setting
	Thermostat Off setting
	Centrally Control (Filter Reset)
	Centrally Control (All Mode)
	Centrally Control (Timer Mode)
	Centrally Control (Set Temperature Mode)
	Centrally Control (ON/OFF Mode)
	Centrally Control (ON Mode)
	Centrally Control (Operation Mode)
Indoor Unit Control (Individual)	Filter Sign Reset
	Antifreeze Setting
	Energy Save Mode Setting
	Vertical/Horizontal Airflow Direction Louver Setting
Outdoor Unit Control (Individual)	Time Setting
	Emergency STOP Setting
Indoor Unit Monitoring (Individual)	ON/OFF Status
	Operation Mode Setting Status
	Temperature Setting Status
	Airflow Mode Setting Status
	Set Point Temperature Limit Status
	Thermostat Off Setting Status
	Centrally Control (Filter Reset) Status

Item	Function
Indoor Unit Control (Individual)	Centrally Control (All Mode) Status
	Centrally Control (Timer Mode) Status
	Centrally Control (Set Temperature) Status
	Centrally Control (ON/OFF) Status
	Centrally Control (ON) Status
	Centrally Control (Operation) Status
	Antifreeze Setting Status
	Energy Save Mode Setting Status
	Filter Sign Reset Status
	Room Temperature Status
	Alarm Code Status
	Vertical/Horizontal Airflow Direction Louver Setting
	Indoor Unit Status
Indoor Unit Control (Batch)	Maintenance Mode Status
	Emergency STOP Setting Status
	ON / OFF Status
	Error Status
Outdoor Unit Monitoring (Individual)	Outdoor Unit Low Noise
	Outdoor Unit Capacity Save
Convertor Unit Monitoring (Individual)	Alarm Code Status
	Modbus Communication Setting Information
	Model Name
	Software Version

Dimensions

Unit:mm (In.)

Model name : UTY-VMGX

Compatibility

(for Oceania Market)

VRF Series	Available
AIRSTAGE J-II Series	✔
AIRSTAGE J-IIS Series	✔
AIRSTAGE V-II Series	✔
AIRSTAGE VR-II Series	✔

Specifications

(TENTATIVE)

Model name			UTY-VMGX
Power supply			1φ AC208-240V 50/60Hz
Power consumption		W	2
Temperature	Operating / Packaged	ºC (ºF)	0~46 (32~114) / -10~60 (14~140)
Humidity	Packaged	%	0~95 (RH); No condensation
Dimensions(H×W×D)		mm (in.)	54(2-1/8) × 260(10-1/4) × 150(5-7/8)
Weight		g (oz)	1,100 (39)
Maximum controllable indoor unit number per 1 Modbus® Convertor			128
Maximum controllable outdoor unit number per 1 Modbus® Convertor			100
Maximum connectable Modbus® Convertor number per 1 VRF network system			9
Maximum number of connected Modbus® Convertor units to one Modbus® master unit	Without repeater		31
	With repeater		247
Communications standards			RS485

CE

TÜV CERT
DIN EN ISO 9001
Certificate: 01 100 79269
ISO 9001
Certified number: 01 100 79269

ISO 14001
BUREAU VERITAS
Certification
UKAS
ISO 14001
Certified number: CNB.J311153-UK

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