YORK® VRF

Variable Refrigerant Flow Systems

Johnson Controls
VRF Smart Gateway

Model number: CBN02

The Johnson Controls VRF Smart Gateway

Fast, simple integration that puts you in control

The new Johnson Controls VRF Smart Gateway provides unprecedented control for network management centers. Offering fast, simple integration into the Metasys® building management system (BMS), the small yet powerful gateway brings data for all YORK VRF components into the Metasys BMS for comprehensive control of the entire system. Best of all, data is available in the format you want, on-demand from any connected device.

Reduced integration time and expense

For the first time, VRF system gateway integration with building management systems is quick and easy. The VRF Smart Gateway works over Ethernet to discover all point data from YORK® VRF Indoor and Outdoor Units and makes the data available through the *Metasys* building management system.

System data organized exactly as you want it

YORK VRF system data is automatically structured and organized during the integration process, eliminating the cost and headache of tedious formatting.

Information is displayed using familiar *Metasys* building management system conventions, simplifying adoption. Device and point names, graphics, and summaries are uniform and consistent with other system data. And all *Metasys* building management system capabilities including the *Metasys* User Interface, Global Search, schedules, reporting, and offline configuration are now available for your YORK VRF systems.

More point data for complete control

Comprehensive point data is available for every YORK VRF Indoor and Outdoor unit providing greater diagnostic capabilities and control.

Complete system data is available at your fingertips for every component across the entire system.

Full BMS functionality anytime, anywhere

The VRF Smart Gateway brings the power of the *Metasys* BMS to the YORK VRF system components. Seamless integration means the entire system– including all YORK VRF components – is accessible and controllable through the BMS interface. And Wi-Fi accessibility enables communication settings to be configured and data to be monitored and controlled 24/7 from a laptop, smartphone or tablet for the ultimate in system control.

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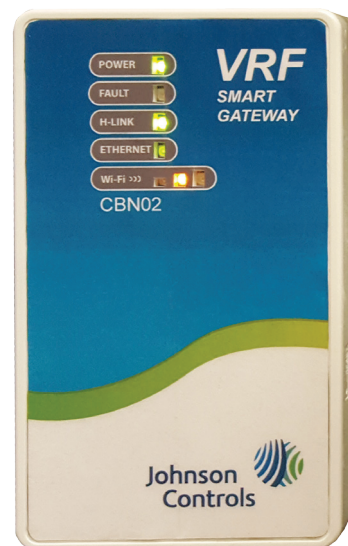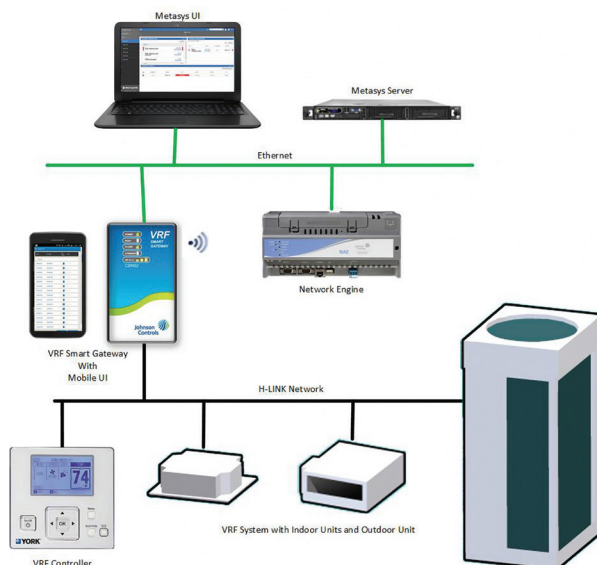
Technical Specifications

VRF Smart Gateway

Product Code[1]	SI-VRFCBN02-0Sx: VRF Smart Gateway (Includes VRF Smart Gateway and 100 to 240 VAC power supply.)
Power Consumption	12 to 15 VDC at 5.2 W maximum
Ambient Temperature Conditions	**Operating:** 0 to 50°C (32 to 122°F) **Operating Survival:** -30 to 60°C (-22 to 140°F) **Non-Operating:** -40 to 70°C (-40 to 158°F)
Ambient Humidity Conditions	**Storage:** 5 to 95% RH 30°C (86°F) maximum dew point conditions **Operating:** 5 to 95% RH, 30°C (86°F) maximum dew point conditions
Transmission Power (Typical)	Wireless Local Area Network (WLAN) Transmission Power: CE Compliant levels +14.5 dBm, 54 Mbps +12.5 dBm, 65 Mbps
WLAN Receiver Sensitivity (Typical)	-76 dBm, 10% packet error rate (PER), 54 Mbps -73 dBm, 10% PER, 65 Mbps
Transmission Speeds	**Wireless Communication:** 2.4 GHz ISM bands, 802.11 b/g/n, 11/22/54 Mbps **Serial Communication (H-Link Bus):** 9600 bps **Ethernet Communication:** 10, 100 Mbps
Transmission Range (Typical)	**Ethernet Communication:** 100 m (328 ft) cable length **H-Link Bus Communication:** 1,000 m (3,280 ft) cable length **Wireless Communication:** 30 m (98 ft) line-of-sight indoors 91 m (299 ft) line-of-sight outdoors **WLAN Range Performance:** 0 to 50 ft = Excellent 50 to 100 ft = Good 100 to 300 ft = Weakest, approaching out of range
Wireless Security	WPA2-PSK TKIP (Wi-Fi Protected Access Pre-Shared Key mode Temporal Key Integrity Protocol) WPA2-EAP-PEAP WPA2-EAP-TLS
Network and Serial Interfaces	One H-Link port (4-pin port)
Dimensions (H x W x D)	145.4 x 85.4 x 40.1 mm (5.72 x 3.36 x 1.58 in.) when used vertically)
Weight	0.21 kg (0.46 lb) **Note:** Weights do not include an external power supply.

Mounting Options	DIN-rail or wall mountable
Web Browser Requirements for Computers and Handheld Devices	**Computer:** Windows® Internet Explorer® 10 and Windows Internet Explorer 11, Apple® Safari® 6.1 and later, and Google® Chrome™ **Handheld Device:** The handheld device must be running either Internet Explorer Mobile for Windows Mobile version 5 or version 6 operating system (OS); Apple® iPhone® and iPod touch® iOS version 7.0 or greater; Android™ 4.0.3, 4.0.4, and 4.1+, or Google Chrome. Other web browsers may display the UI, but the functionality is not guaranteed.
Purpose of Control	Operating control
Construction of Control	Electronic Independently Mounted Control
TYPE 1 or TYPE 2 Action	TYPE 1
Rated Impulse Voltage	330 V
Ball Pressure Temperature	100º C (212º F)
Compliance CE	**United States** UL Listed File E107041, ANSI/UL 60730-1, UL Standard for Automatic Electrical Controls for Household and Similar Use. Transmission Complies with FCC Part 15.247 Regulations for Low Power Unlicensed Transmitters Transmitter FCC Identification: OEJ-MAPWIFI FCC Compliant to CFR 47, Part 15, Subpart B, Class A **Canada:** cUL Listed File E107041, CAN/CSA-E60730-1, Canadian Standard for Automatic Electrical Controls for Household and Similar Use Industry Canada IC: 279A-MAPWIFI IC: RSS-210, ICES-003 **Europe:** CE Mark – Johnson Controls, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of the RED Directive, the EMC Directive, and the Low Voltage Directive (LVD). **CE Emission:** EN61000-6-3; Generic standards for residential, commercial, and light-industrial environments. ETSI EN 301 489-1, ETSI EN301 489-3 (Class 2), IEC 60730-1/ EN 60730-1

1 Last digit (x) represents non-US country requirements.

The performance specifications are nominal and conform to acceptable industry standard. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

YORK®

INSTALL CONFIDENCE

Johnson Controls