



SiteLine™ from Daikin Building Controls

OM 1347

Group: **Controls**

Part Number: **1327**

Date **August 2022**

VAV with Reheat Application Overview

Scalable wireless solution powered by industry leading algorithms for VAV

Daikin SiteLine™ Wireless VAV with reheat solution reduces install cost, improves energy efficiency and comfort, and delivers remote control with diagnostic capabilities to Intelligent Equipment® compatible equipment such as Rebel® and Maverick® II packaged rooftop units and VAV terminal units of all types. VAV with reheat sequences are ready “out-of-the-box” and derived from ASHRAE Guideline 36, High Performance Sequences of Operation for HVAC systems to optimize performance and efficiency with today’s fully modulating air handlers including Rebel® and Maverick® RTUs as well as applied equipment from other manufacturers.

Features

- Native Daikin IE Gateway protocol with 17+ read/write points
- Compatible with all other OEM applied equipment types
- Plug-and-Play capable with 15 packaged profiles for staged and modulating equipment
- Home-run-free wireless terminal VAV box controllers compatible with all manufacturers
- Built-in user interface and analytics platform
- Integrated Modbus Master and BACnet IP Server
- Project Haystack native API for compatibility with all other Web applications

Benefits

- Integrate both Daikin and non-Daikin equipment including central plant
- Simple and affordable out-of-the-box setup with built-in analytics
- Proven solution with real-time remote maintenance and Daikin factory expertise and support
- Incorporates indoor and outdoor air quality and ventilation control

Why Daikin SiteLine™ Wireless?

Get essential, Daikin native protocol access to IE Gateway-compatible applied equipment, plus control options for all other manufacturers in a single, industry-leading IoT BMS.

Daikin SiteLine™ Wireless includes networked, native protocol access via the Intelligent Equipment® Gateway to the Microtech® III unit controller for fast and simple installations. One wire connection from the IE Gateway to the Microtech® III and one wire from the Central Controller to the IE Gateway completes the minimum required to set up the RTU in standalone, single zone mode. The Central Controller includes a setup wizard that can be completed in minutes. Simply apply one of the ready-made central profiles and enjoy the enhanced performance of Guideline 36 Trim and Respond LAT and DP sequences that optimize performance based on IoT data wirelessly streaming in from all zones.

SiteLine™ VAV Central Controller Points List

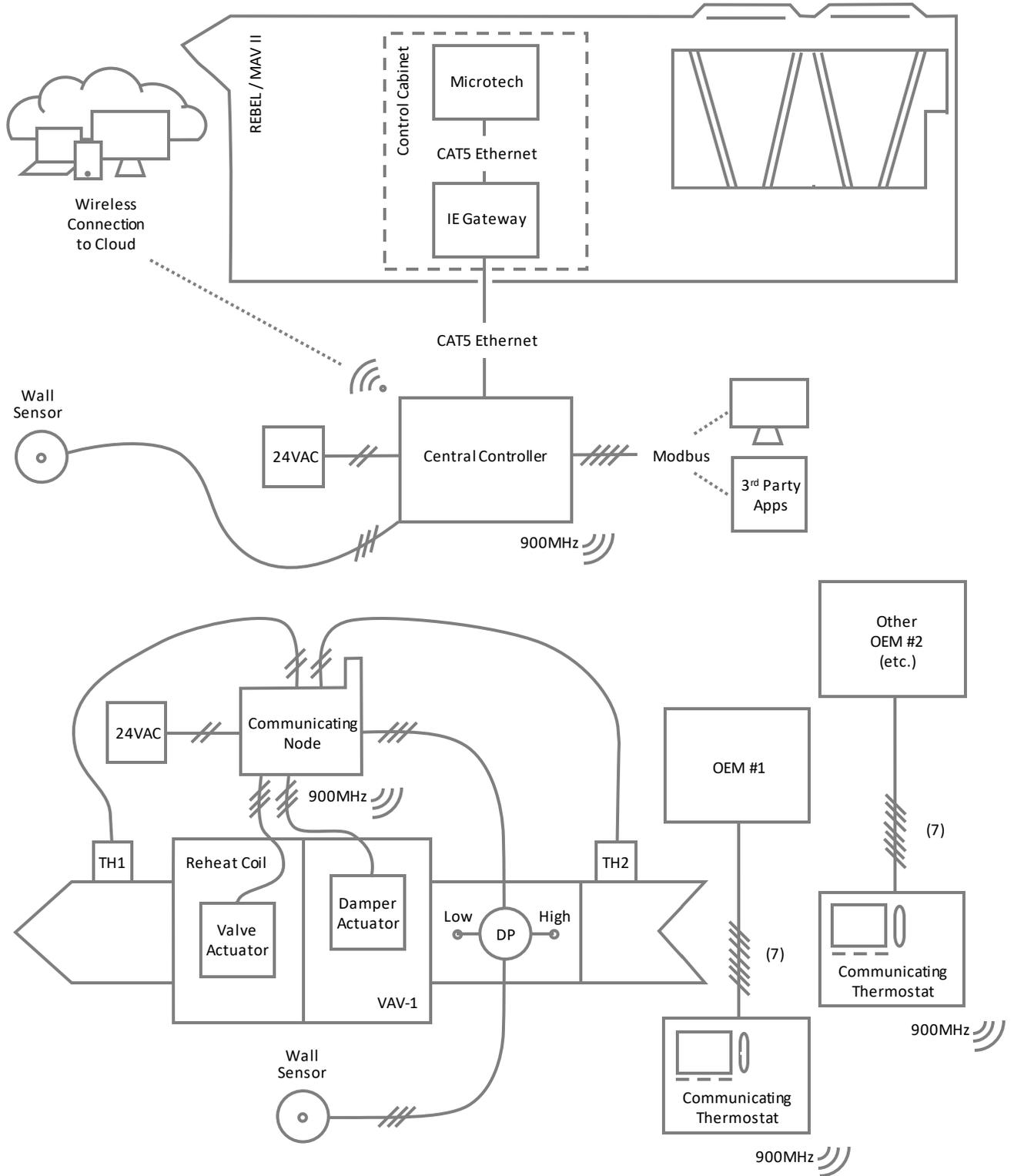
Daikin Intelligence Equipment	
Read	Write
Heartbeat	Occupancy
Alarms:	Heating/Cooling Mode
ActiveWarnEnu	Cooling DAT
ActiveProbEnu	Heating DAT
ActiveFaultEnu	Duct Static Pressure
Occupancy Status	Fan Speed
Effective DAT Setpoint	Humidity Control
DAT	Relative Humidity
Actual Fan Speed	Humidity Setpoint
Weather Feed	Custom Modbus
Custom Modbus	

Generic AHU / RTU	
Read	Write
RAT	AO1: Cooling
MAT	AO2: Fan Speed/Duct Static Pressure
DAT	AO3: Heating
Outside Temp	AO4: DAT for cooling and heating
RA CO2	Cooling stages 1-5
Zone Temp	Heating stages 1-5
Zone Humidity	Fan stages 1-5
Weather Feed	Humidity Control
Custom Modbus	Custom Modbus
BACnet IP Server	

SiteLine™ VAV Application for Rebel or Maverick

With a Communicating Node on the VAV box and non-Daikin OEM terminal equipment controlled by Communicating Thermostats

Terminal VAV boxes do not require home-run networking. The SiteLine Wireless Communicating Node automatically establishes a robust 900 Mhz mesh network and provides all i/o points needed for all types of VAV boxes including electric or HW reheat, series and parallel fans, zone temperature & humidity, and flow rates. I/O points are all hard-wired to their respective control devices such as actuators and sensors.





Daikin Applied Training and Development

Now that you have made an investment in modern, efficient Daikin equipment, its care should be a high priority. For training information on all Daikin HVAC products, please visit us at www.DaikinApplied.com and click on Training, or call 540-248-9646 and ask for the Training Department.

Warranty

All Daikin equipment is sold pursuant to its standard terms and conditions of sale, including Limited Product Warranty. Consult your local Daikin Applied Representative for warranty details. To find your local Daikin Applied Representative, go to www.DaikinApplied.com.

Aftermarket Services

To find your local parts office, visit www.DaikinApplied.com or call 800-37PARTS (800-377-2787). To find your local service office, visit www.DaikinApplied.com or call 800-432-1342.

This document contains the most current product information as of this printing. For the most up-to-date product information, please go to www.DaikinApplied.com.

Products manufactured in an ISO Certified Facility.