





Thermostat Portfolio Competitor Cross Reference Guide

Save energy while maintaining a constant room climate



Communicating Thermostats

RDY2000BN
RTU & heat pump applications

Feature	Siemens	Viconics / Schneider Electric	Honeywell	JCI
Part Number	RDY2000BN	VT8650 / SE8650	TC500A	TEC3630
				
HVAC application	RTU/HP	RTU/HP	RTU/HP	RTU/HP
Fan	Single speed	Single speed	Variable speed	Single speed
Compressor stages: RTU (Conventional)	3H/3C	2H/2C or mod.H/2C	3H/3C or mod.H/3C	2H/2C
Compressor stages: HP	4H/2C	3H/2C or mod.H/2C	5H/3C or mod.H/3C	3H/2C
I/Os	4 UI, 9 BO	7 UI, 5 BO, 4 UO	2 UI, 9 BO, 2 UIO	2 BI, 3 AI, 6 BO
Built-in sensors	Temperature, humidity	Temperature, humidity Optional: PIR motion, CO ₂	Temperature, humidity, proximity	Temperature, humidity Optional: PIR motion
Humidity control	On/off	On/off	On/off	On/off
CO ₂ (damper) control	Open/close	—	Modulating	—
Economizer	On/off	Modulating	On/off	Modulating
Built-in real-time clock and scheduler	Yes	Yes	Yes	Yes
Northbound communication (to BACS)	BACnet MS/TP	BACnet MS/TP, Modbus RTU Optional: Zigbee Pro, BACnet IP over Wi-fi	BACnet IP over Wi-Fi, BACnet MS/TP Cloud connectivity	BACnet MS/TP, N2
Mounting	Wall	Wall	Wall	Wall

Please check the datasheets, installation instructions, mounting guides and commissioning guides to make sure your selection fits your application.



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RDB160BNU Fan-coil unit applications

Feature	Siemens	Viconics / Schneider Electric	KMC Controls	Contemporary Controls
Part Number	RDB160BNU	VT7300 / SE7300	BAC-4000	BAST-421C-B2
				
HVAC application	Fan-coil (2-pipe, 2-pipe with electric heater, 4-pipe)	Fan-coil (2-pipe, 2-pipe with electric heater, 4-pipe)	Fan-coil (2-pipe, 2-pipe with electric heater, 4-pipe)	Fan-coil (4-pipe. Not 2-pipe)
Fan	1, 2, 3-speed, DC 0...10 V*	1, 2, 3-speed	Depends on model: 1, 2, 3-speed only: BAC-4001 / BAC-4002 DC 0...10 V only: BAC-4007 / BAC-4008 1, 2, 3-speed, DC 0...10 V: BAC-4003	Single speed
Valves (heating & cooling)	On/off, 3-position (floating)**, DC...10 V*	Depends on model: On/off, 3-position (floating): VT7300C5000B / SE7300C5045B DC...10 V: VT7300F5000B / SE7300F5045B	Depends on model: On/off: BAC-4001 / BAC-4007 / BAC-4003 DC...10 V: BAC-4001 / BAC-4007 / BAC-4003	DC...10 V
Electric heater	On/off	On/off (auxiliary reheater)	On/off	—
I/Os	1 BI, 1 AI, 1 UI, 4 BO, 2 UO	All models: 2 BI, 1 AI, 1 U1, 3 BO (fan), 1 BO (auxiliary) SE7300C5045B: 4 BO (valves) SE7300F5045B: 2 AO (valves)	2 AI, 1 UI, 5 BO, 3 AO	1 BI, 1 AI, 1 BO, 2 AO
Built-in sensors	Temperature	Temperature Optional: Humidity, PIR motion	Temperature Optional: Humidity, PIR motion	Temperature
Built-in real-time clock and scheduler	No	No	Yes	No
Northbound communication (to BACS)	BACnet MS/TP	BACnet MS/TP	BACnet MS/TP	BACnet MS/TP
Mounting	Wall	Wall	Wall	Wall

*Up to 2 DC 0...10 V control outputs are available i.e., for a 4-pipe fan-coil: the control of a DC fan, DC cooling valve, and DC heating valve is not possible

**3-position (floating) output is only supported for 2-pipe fan-coils

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