

SIEMENS



BACnet Protocol Implementation Conformance (PIC) Statement

Table of Contents

BACnet Protocol Implementation Conformance Statement	4
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BACnet Protocol Implementation Conformance Statement

Products

Standard BACnet ATEC and PTECs

Product	Model Number	Protocol Revision	Application Software Revision	Firmware Revision
BACnet Actuating Terminal Equipment Controller (ATEC)	550-430PA / 550-431PA	Revision 9 (135-2010)	2.1.6.13	BY50
BACnet PTEC Constant Volume Controller	550-498PA	Revision 9 (135-2010)	2.1.6.11	BC51
BACnet PTEC Dual Duct 2 AVS Controller	550-497PA	Revision 9 (135-2010)	2.1.6.12	BD51
BACnet PTEC Extended I/O Controller	550-491PA	Revision 9 (135-2010)	2.1.6.12	BI51
BACnet PTEC Heat Pump Multi-Stage Controller	550-490PA	Revision 9 (135-2010)	2.1.6.12	BK51
BACnet PTEC Terminal Box (VAV) Controller	550-495PA	Revision 9 (135-2010)	2.1.6.70	BV51
BACnet PTEC Terminal Box (VAV) Controller	550-432PA	Revision 9 (135-2010)	2.1.6.21	BS51
BACnet PTEC Unit Conditioner Controller	550-496PA	Revision 9 (135-2010)	2.1.6.14	BF51
BACnet PTEC Unit Conditioner Controller	550-433PA	Revision 9 (135-2010)	2.1.6.14	BT51
BACnet PTEC Unit Conditioner Heating and Cooling Controller with Multi-Speed Fan, ON/OFF Switch, and Occupancy Sensor) Controller	550-480PA	Revision 9 (135-2010)	2.1.6.14	BJ51
BACnet PTEC VAV Chilled Beam with Demand Control Ventilation (CO2) and Floating or Analog Output Controller	550-494PA	Revision 9 (135-2010)	2.1.6.18	BB53
BACnet PTEC VAV with CO2 Monitoring & Floating or AOV Heating Controller	550-499PA	Revision 9 (135-2010)	2.1.6.18	BU51
BACnet PTEC VAV with Series Fan and 3-Stage Electric Heat Controller	550-492PA	Revision 9 (135-2010)	2.1.6.19	BH51
BACnet PTEC Unit Vent Controller	550-493PA	Revision 9 (135-2010)	2.1.6.17	BE51

Smoke Control Listed BACnet ATEC and PTECs

Product	Model Number	Protocol Revision	Application Software Revision	Firmware Revision
Smoke Control Listed BACnet VAV Actuating Terminal Equipment Controller (ATEC), UUKL	550-430PKA / 550-431PKA	Revision 9 (135-2010)	2.1.6.13	BY50
Smoke Control Listed BACnet PTEC Constant Volume Controller, UUKL	550-498PKA	Revision 9 (135-2010)	2.1.6.11	BC51
Smoke Control Listed BACnet PTEC Dual Duct 2 AVS Controller	550-497PKA	Revision 9 (135-2010)	2.1.6.12	BD51
Smoke Control Listed BACnet PTEC Extended I/O Controller	550-491PKA	Revision 9 (135-2010)	2.1.6.12	BI51
Smoke Control Listed BACnet PTEC Heat Pump Multi-Stage Controller	550-490PKA	Revision 9 (135-2010)	2.1.6.12	BK51
Smoke Control Listed BACnet PTEC Terminal Box (VAV) Controller	550-495PKA	Revision 9 (135-2010)	2.1.6.70	BV51
Smoke Control Listed BACnet PTEC Unit Conditioner Controller	550-496PKA	Revision 9 (135-2010)	2.1.6.14	BF51
Smoke Control Listed BACnet PTEC VAV with Series Fan and 3-Stage Electric Heat Controller	550-492PKA	Revision 9 (135-2010)	2.1.6.19	BH51
Smoke Control Listed BACnet PTEC Unit Vent Controller	550-493PKA	Revision 9 (135-2010)	2.1.6.17	BE51

Standard BACnet Fume Hood, Laboratory and Pressurized Room Controllers

Product	Model Number	Protocol Revision	Software Revision	Firmware Revision
Programmable BACnet Fume Hood Controller 2-position for use with Damper	570-00701PA	Revision 9 (135-2010)	2.1.6.42	ZX52
Programmable BACnet Fume Hood Controller VAV with Damper, Venturi Air Valve or VFD	570-00701PA	Revision 9 (135-2010)	2.1.6.42	ZX52
Programmable BACnet LCM - OAVS Low Speed Damper and RTS or BTU	570-801PA	Revision 9 (135-2010)	2.1.6.15	ZO51
Programmable BACnet LCM – OAVS with Low Speed Venturi Air Valves and RTS or BTU	570-802PA	Revision 9 (135-2010)	2.1.6.24	ZN53
Programmable BACnet LCM-OAVS with High Speed Damper and RTS or BTU	570-803PA	Revision 9 (135-2010)	2.1.6.16	ZL51
Programmable BACnet LCM-OAVS with High Speed Venturi Air Valves and RTS or BTU	570-804PA	Revision 9 (135-2010)	2.1.6.24	ZK51
Programmable BACnet LCM-OAVS with Low Speed Damper Supply, Venturi Air Valve Exhaust and RTS or BTU	570-805PA	Revision 9 (135-2010)	2.1.6.17	ZM53

Programmable BACnet PRC-OAVS with Low Speed Damper, Reheat and Radiation	570-810PA	Revision 9 (135-2010)	2.1.6.13	ZG52
Programmable BACnet PRC-OAVS with Pressurization Control by Differential Flow Reset, Heating by BTU Compensation and Low Speed Actuation, Floating or Analog Output	570-811PA	Revision 9 (135-2010)	2.1.6.11	ZQ51

Smoke Control Listed BACnet Fume Hood, Laboratory and Pressurized Room Controllers

Product	Model Number	Protocol Revision	Software Revision	Firmware Revision
Smoke Control Listed Programmable BACnet Fume Hood Controller 2-position for use with Damper, UUKL	570-00701PKA	Revision 9 (135-2010)	2.1.6.42	ZX52
Smoke Control Listed Programmable BACnet Fume Hood Controller VAV with Damper, Venturi Air Valve or VFD, UUKL	570-00701PKA	Revision 9 (135-2010)	2.1.6.42	ZX52
Smoke Control Listed Programmable BACnet LCM - OAVS Low Speed Damper and RTS or BTU, UUKL	570-801PKA	Revision 9 (135-2010)	2.1.6.15	ZO51
Smoke Control Listed Programmable BACnet LCM – OAVS with Low Speed Venturi Air Valves and RTS or BTU, UUKL	570-802PKA	Revision 9 (135-2010)	2.1.6.24	ZN53
Smoke Control Listed Programmable BACnet LCM-OAVS with High Speed Damper and RTS or BTU, UUKL	570-803PKA	Revision 9 (135-2010)	2.1.6.16	ZL51
Smoke Control Listed Programmable BACnet LCM-OAVS with High Speed Venturi Air Valves and RTS or BTU, UUKL	570-804PKA	Revision 9 (135-2010)	2.1.6.24	ZK51
Smoke Control Listed Programmable BACnet LCM-OAVS with Low Speed Damper Supply, Venturi Air Valve Exhaust and RTS or BTU, UUKL	570-805PKA	Revision 9 (135-2010)	2.1.6.17	ZM53
Smoke Control Listed Programmable BACnet PRC-OAVS with Low Speed Damper, Reheat and Radiation, UUKL	570-810PKA	Revision 9 (135-2010)	2.1.6.13	ZG52
Smoke Control Listed Programmable BACnet PRC-OAVS with Pressurization Control by Differential Flow Reset, Heating by BTU Compensation and Low Speed Actuation, Floating or Analog Output, UUKL	570-811PKA	Revision 9 (135-2010)	2.1.6.11	ZQ51

Date Tested: December 2014 – B-ASC

Vendor Information

Siemens Industry, Inc.
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Product Description

The controller is an integral part of Siemens controls system. The controller can operate stand-alone or can be networked to perform complex HVAC control, monitoring, and energy management functions. This controller communicates using BACnet MS/TP.

BACnet Standardized Device Profile

Product	Device Profile	Tested
PTEC/ATEC	BACnet Application Specific Controller (B-ASC)	✓

Supported BACnet Interoperability Building Block (BIBBs)

Product	BIBB	Name	Tested
PTEC/ATEC	DS-RP-B	Data Sharing-ReadProperty-B	✓
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B	✓
	DS-WP-B	Data Sharing-WriteProperty-B	✓
	DM-DDB-B	Device Management-Dynamic Device Binding-B	✓
	DM-DOB-B	Device Management-Dynamic Object Binding-B	✓
	DM-DDC-B	Device Management-DeviceCommunicationControl-B	✓
	DM-RD-B	Device Management-ReinitializeDevice-B	✓
	DM-BR-B	Device Management-Backup and Restore-B	✓
	DM-OCD-B	Device Management-Object Creation and Deletion-B	✓

Standard Object Types Supported

Product	Object Type	Creatable	Deletable
PTEC/ATEC	Analog Input	No	No
	Analog Output	Yes	Yes
	Binary Input	No	No
	Binary Output	Yes	Yes
	Device	No	No
	File	No	No
	Program	No	No

Data Link Layer Options

Product	Data Link and Options
PTEC/ATEC	MS/TP master (Clause 9), baud rate(s): 9600 bps, 19200 bps, 38400 bps, 76800 bps
	MS/TP slave (Clause 9), baud rate(s): 9600 bps, 19200 bps, 38400 bps, 76800 bps

Segmentation Capability

Product	Segmentation Type	Supported	Window Size: 32 (MS/TP product limited to 1)
PTEC/ATEC	Can transmit segmented messages	No	
	Can receive segmented messages	No	

Device Address Binding

Product	Static Device Binding Supported
PTEC/ATEC	No

Networking Options

Product	Description	Supported
PTEC/ATEC	Router, Clause 6 (remote management functionality/BACnet PTP)	No
PTEC/ATEC	Annex H, BACnet Tunneling Router over IP	No
PTEC/ATEC	BACnet/IP Broadcast Management Device (BBMD) Number of BDT entries: N/A Number of FDT entries: N/A	No
PTEC/ATEC	Does the BBMD support registrations by foreign devices?	No



Character Sets

Product	Character Sets Supported
PTEC/A TEC	ANSI X3.4

Issued by
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