

TC Compact Series for BACnet Networks

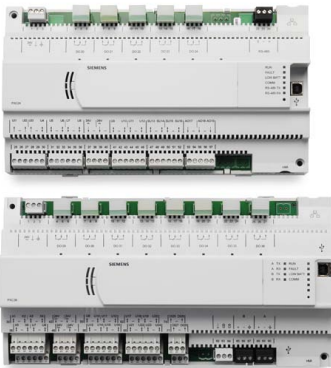


Figure 1. TC Compact Series Controllers (TC-24 and TC-36 shown).

Description

The TC Compact Series (Programmable Controller–Compact) for BACnet networks is a high-performance Direct Digital Control (DDC) supervisory equipment controller, which is an integral part of the TALON Automation System. The controllers are classified as either a BACnet Building Controller (B-BC) with support for BACnet/IP or BACnet MS/TP protocols.

The TC Compact Series offers integrated I/O based on state-of-the-art TX-I/O™ Technology, which provides superior flexibility of point and signal types, and makes it an optimal solution for Air Handling Unit (AHU) control. The TC Compact operates stand-alone or networked to perform complex control, monitoring,

and energy management functions without relying on a higher-level processor.

The TC Compact Series communicates with other field panels or workstations on a peer-to-peer Automation Level Network (ALN), or on the Field Level Network (FLN), and supports the following communication options:

- Native BACnet/IP communications over 10/100 MB Ethernet networks
- Native BACnet MS/TP on RS-485

The TC Compact is available with 16, 24, or 36 point terminations. Selected models in the Compact Series provide the following options:

- Supervision for FLN devices.
- An extended temperature range for the control of rooftop devices.
- Support for Island Bus, which uses TX-I/O modules to expand the number of point terminations for high speed loop control.

Features

- BACnet Testing Laboratories (BTL) certified
Classified as BACnet Building Controllers using the BACnet/IP protocol and/or BACnet MS/TP.
- DIN rail mounted device with removable terminal blocks simplifies installation and servicing.

- Mini RS-232 port, which provides laptop connectivity for local operation and engineering.
- Extended battery backup of Real Time Clock.
- Persistent database backup and restore within the controller.
- Optional HOA (Hand/Off/Auto) module for swappable and configurable HOA capability.
- Optional extended temperature range for rooftop installation.
- Optional support for MS/TP devices.
- Auto Save and persistent database backup and restore within the controller.
- PXM10T and PXM10S support: Optional LCD Local user interface with HOA (Hand-off-auto) capability and point commanding and monitoring features.
- MS/TP Point Pickup Module (PPM) support: Universal Inputs can be configured for analog or digital input. Input/Output type is configured by writing to BACnet object properties.
- BACnet Field Panel Web Server support: Web-based Graphical User Interface (GUI) compatible with BACnet® networks. Ideal for small or remote facilities to monitor and control the Building Automation System.

The TC-16 provides control of 16 points, including 8 software-configurable universal points.

Point count includes: 3 Universal Input (UI), 5 Universal I/O (U), 2 Digital Input (DI), 3 Analog Output (AOV), and 3 Digital Output (DO).

TC-24

The TC-24 provides control of 24 points, including 16 software-configurable universal points.

Point count includes: 3 Universal Input (UI), 9 Universal I/O (U), 4 Super Universal I/O (X), 3 Analog Output (AOV), 5 Digital Output (DO).

TC-36

The TC-36 provides control of 36 local points, including 24 software-configurable universal points.

Point count includes: 18 Universal I/O (U), 6 Super Universal I/O (X), 4 Digital Input (DI), and 8 Digital Output (DO).

The TC-36 offers the flexibility of expanding the total point count through a self-forming Island Bus. With the addition of a TX-I/O Power Supply, up to two TX-I/O modules can be supported. For more information, see the *TX-I/O Product Range Technical Specification Sheet* (149-476T).

controller processor. The terminal blocks are removable for easy termination of field wiring.

- The Universal and Super Universal points leverage TX-I/O™ Technology from Siemens Building Technologies to configure an extensive variety of point types.
- Universal Input (UI) and Universal Input/Output (U) points are software-selectable to be:
 - 0-10V input
 - 4-20 mA input
 - Digital Input
 - Pulse Accumulator inputs
 - 1K Ni RTD @ 32°F (Siemens, Johnson Controls, DIN Standard)
 - 1K Pt RTD (375 or 385 alpha) @ 32°F
 - 10K NTC Thermistor (Type 2 and Type 3) @ 77°F
 - 100K NTC Thermistor (Type 2) @ 77°F
 - 0-10V Analog Output (Universal Input/Output (U) points only)
- Super Universal (X) points (TC-24 and TC-36 only) are software-selectable to be:
 - 0-10V input

– Digital Output (using external relay)

- Dedicated Digital Input (DI) points (TC-16 only) are dry contact status sensing.
- Digital Output (DO) points are 110/220V 4 Amp (resistive) Form C relays; LEDs indicate the status of each point.
- All TC Compact Series models support 0-10 Vdc Analog Output circuits.
- On TC-24 and TC-36 models, the Super Universal points may be defined as either 0-10 Vdc or 4-20 mA Analog Output circuits.

Power Supply

- The 24 volt DC power supply provides regulated power to the input/output points and active sensors. The power supply is internal to the TC Compact housing, eliminating the need for external power supply and simplifying installation and troubleshooting.
- The power supply works with the processor to ensure smooth power up and power down sequences for the equipment controlled by the I/O points, even through brownout conditions.

interface for an HMI or Tool connection, or used for memory expansion in select models. The USB Device port does not support firmware flash upgrades.

- The program and database information stored in the TC Compact RAM memory is battery-backed. This eliminates the need for time-consuming program and database re-entry in the event of an extended power failure.
- The firmware, which includes the operating system, is stored in non-volatile flash ROM memory; this enables firmware upgrades in the field.
- Brownout protection and power recovery circuitry protect the controller board from power fluctuations.
- LEDs provide instant visual indication of overall operation, network communication, and low battery warning.

Available Options

The following options are available to match the application:

Web Server and Web Services

The TC Compact Series supports Web Server and Web Services functionality. The Web Server license provides an HTML Web-based user interface for your TALON Building Automation System. It is an ideal solution for small or remote facilities with field panels on a BACnet/IP Automation Level Network (ALN).

The Web Server/Web Services is a licensable option on the TC Compact.

This solution provides the user the following features: Web-based graphics and user interface; command, monitor, alarm, trend, and generate reports on BACnet objects within the controller database including supervised FLN device information; schedule BACnet objects within the controller database including supervised FLN devices; and remote notification.

Programmable Control with Application Flexibility

The TC Compact Series of high performance controllers provides complete flexibility, which allows the owner to customize each controller with the exact program for the application.

information access.

Multiple Operator Access

Multiple operators can access the network simultaneously. Multiple operator access ensures that alarms are reported to an alarm printer while an operator accesses information from a local terminal. When using the BACnet/IP ALN option, multiple operators may also access the controller through concurrent Telnet sessions and/or local operator terminal ports, plus optional Web interface using the Web or Web Services option.

Menu Prompted, English Language Operator Interface

The TC Compact includes a simple, yet powerful, menu-driven English Language Operator Interface that provides, among other things:

- Point monitoring and display
- Point commanding
- Historical trend collection and display for multiple points
- Event scheduling
- Program editing and modification via Powers Process Control Language (PPCL)

- Closed Loop Proportional, Integral and Derivative (PID) control.
- Logical sequencing.
- Alarm detection and reporting.
- Reset schedules.

Built-in Energy Management Applications

The following applications are programmed in the TC Compact Series and require simple parameter input for implementation:

- Automatic Daylight Saving Time switchover
- Duty cycling
- Economizer control
- Event scheduling
- Holiday scheduling
- Night setback control
- Peak Demand Limiting (PDL)
- Temperature-compensated duty cycling
- Temporary schedule override

Memory TC-16 and TC-24: 24 MB (16 MB SDRAM, 8 MB Flash ROM)
 TC-36: 80 MB (64 MB SDRAM, 16 MB Flash ROM)

Battery backup of Synchronous Dynamic (SD) RAM (field replaceable) TC-16 and TC-24 Non-rooftop Models: 60 days (accumulated)
 AA (LR6) 1.5 Volt Alkaline (non-rechargeable)
 TC-36: 28 days (accumulated)
 AA (LR6) 1.5 Volt Alkaline (non-rechargeable)
 Rooftop (Extended Temperature) Models: 90 days (accumulated)
 AA (LR6) 3.6 Volt Lithium (non-rechargeable)

Battery backup of Real Time Clock Non-rooftop Models: 10 years
 Coin cell (BR2032) 3 Volt lithium
 Rooftop (Extended Temperature) Models: 18 months
 Coin cell (BR2032) 3 Volt lithium

Communication

A/D Resolution (analog in) 16 bits

D/A Resolution (analog out) 10 bits

BACnet/IP Automation Level Network (ALN) 10Base-T or 100Base-TX compliant

Electrical

Power Requirements	24 Vac \pm 20% input @ 50/60 Hz
Power Consumption (Maximum)	TC-16: 18 VA @ 24 Vac TC-24: 20 VA @ 24 Vac TC-36: 35 VA @ 24 Vac
AC Power and Digital Outputs	NEC Class 1 Power Limited
Communication and all other I/O	NEC Class 2
Digital Input	Contact Closure Sensing Dry Contact/Potential Free inputs only Does not support counter inputs
Digital Output	Class 1 Relay
Analog Output	0 to 10 Vdc
Universal Input (UI) and Universal Input/Output (U)	Analog Input Voltage (0-10 Vdc) Current (4-20 mA) 1K Ni RTD @ 32°F 1K Pt RTD (375 or 385 alpha) @ 32°F 10K NTC Type 2 or Type 3 Thermistor @ 77°F

Voltage (0-10 Vdc)

Current (4-20 mA)

1K Ni RTD @ 32°F

1K Pt RTD (375 or 385 alpha) @ 32°F

10K NTC Type 2 or Type 3 Thermistor @ 77°F

100K NTC Type 2 Thermistor @ 77°F

Digital Input

Pulse Accumulator

Contact Closure Sensing

Dry Contact/Potential Free inputs only

Supports counter inputs up to 20 Hz

Analog Output

Voltage (0-10 Vdc)

Current (4-20 mA)

Digital Output (requires an external relay)

0 to 24 Vdc, 22 mA max.

Operating Environment

Ambient operating temperature 32°F to 122°F (0°C to 50°C)

Ambient operating temperature *with* -40°F to 158°F (-40°C to 70°C)
rooftop (extended temperature) option

Relative Humidity TC-16 and TC-24: 5% to 95%, non-condensing

CSA

CSA 22.2 No. 205-M1983 SIGNAL EQUIPMENT

Agency Compliance

FCC Compliance CFR47 Part 15, Subpart B, Class B

Australian EMC Framework

European EMC Directive (CE)

European Low Voltage Directive (LVD)

BTL

BACnet Testing Laboratories (BTL) Certified, Firmware Revision 3.0 and later

OSHPD Seismic Certification

Product meets OSHPD Special Seismic Preapproval certification (OSH-0217-10) under California Building Code 2010 (CBC2010) and International Building Code 2009 (IBC2009) when installed within the following Siemens enclosure part numbers: PXA-ENC18, PXA-ENC19, or PXA-ENC34.

TC24-2-ELN.T	TC Compact, 24 point, BACnet/IP ALN, Foottop, MS/TP FLN option
TC36-E.T	TC Compact, 36 point, BACnet/IP or MS/TP ALN
TC36-EF.T	TC Compact, 36 point, BACnet/IP or MS/TP ALN, Island Bus support, MS/TP FLN

Optional Licenses

Product Number	Description
LSM-FLN.T	License to enable FLN support on TC-16 or TC-24 "F" models
LSM-36.T	License to enable 2 TX-I/O modules on the Island Bus and FLN support on model TC36-E.T
LSM-FPWEB.T	License to enable BACnet Field Panel Web Server (TC-1000, TC-36) or Web Services (TC-16/24)
LSM-IB36.T	License to support the Island Bus on the TC Compact 36
LSM-FLN36.T	License to enable FLN support on the TC Compact 36
LSM-SNMP.T	License to enable SNMP Agent License to enable SNMP Agent

Accessories

Product Number	Description
PXM10S	Controller mounted Operator Display module with point monitor and optional blue backlight
PXM10T	Controller mounted Operator Display module
PXA8-M	8-switch HOA (UL864)

PXA-SB115V192VA	PX Series Service Box—115V, 24 Vac, 50/60 Hz, 192 VA
PXA-SB115V384VA	PX Series Service Box—115V, 24 Vac, 50/60 Hz, 384 VA
PXA-SB230V192VA	PX Series Service Box—230V, 24 Vac, 50/60 Hz, 192 VA
PXA-SB230V384VA	PX Series Service Box—230V, 24 Vac, 50/60 Hz, 384 VA
PXA-ENC18	18" Enclosure (Utility Cabinet) (UL Listed NEMA Type 1 Enclosure)
PXA-ENC19	19" Enclosure (UL Listed NEMA Type 1 Enclosure)
PXA-ENC34	34" Enclosure (UL Listed NEMA Type 1 Enclosure)

Documentation

Product Number	Description
588-682	TC Compact Series Owner's Manual
588-583	TALON Powers Process Control Language (PPCL) User's Manual

	TC24.2-ERF.T			
	TC24.2-M.T			
	TC24.2-MR.T			
	TC36-E.T			
	TC36-EF.T			

Vendor Information

Siemens Industry, Inc.
Building Technologies Division
1000 Deerfield Parkway
Buffalo Grove, IL 60089
www.buildingtechnologies.siemens.com/bt/us

Product Description

An integral member of the TALON product family, the TC Compact for BACnet Networks is a high performance, modular Direct Digital Control (DDC) supervisory equipment and primary building controller. The TC Compact operates stand-alone or networked to perform complex control, monitoring and energy management functions without relying on a higher-level processor. The TC Compact communicates on a 10/100 MB Ethernet BACnet/IP or BACnet MS/TP network and optionally supervises BACnet MS/TP devices.

Supported BACnet Interoperability Building Block (BIBBs)

BIBB	Name	Initiate	Execute
Data Sharing			
DS-RP-A	Data Sharing-ReadProperty-A	•	
DS-RP-B	Data Sharing-ReadProperty-B		•
DS-RPM-A	Data Sharing-ReadPropertyMultiple-A	•	
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B		•
DS-WP-A	Data Sharing-WriteProperty-A	•	
DS-WP-B	Data Sharing-WriteProperty-B		•
DS-WPM-B	Data Sharing-WritePropertyMultiple-B		•
DS-COV-A	Data Sharing-COV-A	•	
DS-COV-B	Data Sharing-COV-B		•
DS-COVU-A	Data Sharing-COV-Unsolicited-A	•	
DS-COVU-B	Data Sharing-COV-Unsolicited-B		•

Scheduling			
SCHED-I-B	Scheduling-Internal-B		•

AE-ASUM-B	Alarm and Event-Alarm Summary-B		•
AE-ESUM-A	Alarm and Event-Enrollment Summary-A	•	
AE-ESUM-B	Alarm and Event-Enrollment Summary-B		•
AE-INFO-A	Alarm and Event-Information-A	•	
AE-INFO-B	Alarm and Event-Information-B		•

Trending			
T-VMT-A	Trending-Viewing and Modifying Trends-A	•	
T-VMT-I-B	Trending-Viewing and Modifying Trends- Internal-B		•
T-VMT-E-B	Trending-Viewing and Modifying Trends- External-B		•
T-ATR-B	Trending-Automated Trend Retrieval-B		•

Network Management			
NM-CE-A	Network Management-Connection Establishment-A	•	

DM-TM-A	Device Management-Text Message-A	.	
DM-TM-B	Device Management-Text Message-B		.
DM-TS-B	Device Management-TimeSynchronization-B		.
DM-RD-B	Device Management-ReinitializeDevice-B		.
DM-BR-B	Device Management-Backup and Restore-B		.
DM-LM-B	Device Management-List Manipulation-B		.
DM-OCD-B	Device Management-Object Creation and Deletion-B		.

Standard Object Types Supported

Name	Creatable	Deletable
Analog Input		
Analog Output		
Analog Value		
Binary Input		
Binary Output		
Binary Value		

Notification Class	.	.
Schedule	.	.
Trend Log	.	.

Object Attributes

O indicates that the property is optional, per the BACnet standard.

R indicates that the property is required to be present and readable using BACnet services.

Yes indicates that the property is required to be present, readable, and writable using BACnet services.

Analog Input Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R
Present_Value	Yes	Yes	R
Description	Yes	Yes	O
Device_Type	Yes		O

Notification Class	Yes - Alarm	Yes	O
High_Limit	Yes - Alarm	Yes	O
Low_Limit	Yes - Alarm	Yes	O
Deadband	Yes - Alarm		O
Limit_Enable	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Analog Output Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R
Present_Value	Yes	Yes	W
Description	Yes	Yes	O
Device_Type	Yes		O

Priority_Array	Yes		R
Relinquish_default	Yes		R
COV_Increment	Yes	Yes	O
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
High_Limit	Yes - Alarm	Yes	O
Low_Limit	Yes - Alarm	Yes	O
Deadband	Yes - Alarm		O
Limit_Enable	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Analog Value Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R

Priority_Array	Yes		O
Relinquish_default	Yes		O
COV_Increment	Yes	Yes	O
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
High_Limit	Yes - Alarm	Yes	O
Low_Limit	Yes - Alarm	Yes	O
Deadband	Yes - Alarm		O
Limit_Enable	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Binary Input Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R

Polarity	Yes		R
Inactive_Text	Yes		O
Active_Text	Yes		O
Elapsed_Active_Time	Yes	Yes	O
Time_Of_Active_Time_Reset	Yes		O
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
Alarm_Value	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Binary Output Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R

Inactive_Text	Yes		O
Active_Text	Yes		O
Elapsed_Active_Time	Yes	Yes	O
Time_Of_Active_Time_Reset	Yes		O
Priority_Array	Yes		R
Relinquish_default	Yes		R
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
Feedback_Value	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Binary Value Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R

Active_Text	Yes		O
Elapsed_Active_Time	Yes	Yes	O
Time_Of_Active_Time_Reset	Yes		O
Priority_Array	Yes		O
Relinquish_default	Yes		O
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
Alarm_Value	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Calendar Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R

Object_Type	Yes		R
Description	Yes	Yes	O
Present_Value	Yes	Yes	W
In_Process	Yes		R
All_Writes_Successful	Yes		R
Action	Yes	Yes	R
Action_Text	Yes	Yes	O
Device Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R
System_Status	Yes		R
Vendor_Name	Yes		R
Vendor_Identifier	Yes		R
Model_Name	Yes		R
Firmware_Revision	Yes		R

Max_APDU_Lenght_Accepted	Yes		R
Segmentation_Supported	Yes		R
Max_Segments_Supported	Yes		O
Local_Time	Yes		O
Local_Date	Yes		O
Daylight_Savings_Status	Yes		O
APDU_Segment_Timeout	Yes		O
APDU_Timeout	Yes		R
Number_Of_APDU_Retries	Yes		R
Device_Address_Binding	Yes		R
Database_Revision	Yes		R
Configuration_Files	Yes		O
Last_Restore_Time	Yes		O
Backup_Failure_Timeout	Yes	Yes	O
Active_COV_Subscriptions	Yes		O
Event Enrollment Object Type			
Property_Identifier	Supported	Writable	Required \ Optional

Event_State	Yes		R
Event_Enable	Yes	Yes	R
Acked_Transitions	Yes		R
Notification Class	Yes	Yes	R
Event_Time_Stamps	Yes		R
File Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R
Description	Yes		O
File_Type	Yes		R
File_Size	Yes	Yes	R
Modification_Date	Yes		R
Archive	Yes	Yes	W
Read_only	Yes		R
File_Access_Method	Yes		R

Device_Type	Yes		O
Status_Flags	Yes		R
Event_State	Yes		R
Reliability	Yes		O
Out_Of_Service	Yes	Yes	R
Number_Of_States	Yes		R
State_Text	Yes		O
Priority_Array	Yes		R
Relinquish_default	Yes		R
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
Feedback_Value	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Multi-state Value Object Type			
Property_Identifier	Supported	Writable	Required \

Reliability	Yes		O
Out_Of_Service	Yes	Yes	R
Number_Of_States	Yes		R
State_Text	Yes		O
Priority_Array	Yes		O
Relinquish_default	Yes		O
Time_Delay	Yes - Alarm		O
Notification Class	Yes - Alarm	Yes	O
Alarm_Values	Yes - Alarm		O
Fault_Values	Yes - Alarm		O
Event_Enable	Yes - Alarm	Yes	O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O
Notification Class Object Type			
Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R

Property_Identifier	Supported	Writable	Required \ Optional
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R
Present_Value	Yes	Yes	R
Description	Yes	Yes	O
Effective_Period	Yes	Yes	R
Weekly_Schedule	Yes	Yes	O
Exception_Schedule	Yes	Yes	O
Schedule_Default	Yes	Yes	R
List_Of_Object_Property_References	Yes	Yes	R
Priority_For_Writing	Yes	Yes	R
Status_Flags	Yes		R
Reliability	Yes		R
Out_Of_Service	Yes	Yes	R
Trend Log Object Type			
Property_Identifier	Supported	Writable	Required \

Log_DeviceObjectProperty	Yes		O
Log_Interval	Yes		O
Client_COV_Interval	Yes		O
Stop_When_Full	Yes	Yes	R
Buffer_Size	Yes		R
Log_Buffer	Yes		R
Record_Count	Yes	Yes	W
Total_Record_Count	Yes		R
Notification_Threshold	Yes - Alarm	Yes	O
Records_Since_Notification	Yes - Alarm		O
Last_Notify_Record	Yes - Alarm		O
Event_State	Yes - Alarm		R
Notification_Class	Yes - Alarm	Yes	O
Event_Enable	Yes - Alarm		O
Acked_Transitions	Yes - Alarm		O
Notify_Type	Yes - Alarm		O
Event_Time_Stamps	Yes - Alarm		O

	Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
	Point-To-Point, modem, (Clause 10), baud rate(s): _____
	LonTalk, (Clause 11), medium: _____
	Other: _____

Segmentation Capability

Able to transmit segmented messages	Yes	Window Size: 32
Able to receive segmented messages	Yes	Window Size: 32

Device Address Binding

Is Static Device Binding supported?	Yes
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Networking Options

•	Router, Clause 6 BACnet/IP (Annex J) to BACnet MS/TP
	Annex H.3, BACnet Tunneling Router over UDP/IP
•	BACnet/IP Broadcast Management Device (BBMD)
Yes	Does the BBMD support registrations by Foreign Devices?

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Siemens Industry, Inc.
Building Technologies Division
1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513
USA
Tel. 1 + 847-215-1000

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comments about this document, please send them to
SBT_technical.editor.us.sbt@siemens.com

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Page 31 of 31