

## PXC Compact Series for BACnet Networks

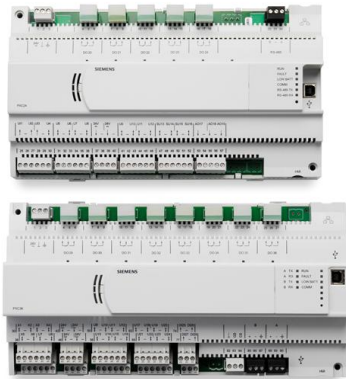


Figure 1. PXC Compact Series Controllers (PXC-24 and PXC-36 shown).

### Description

The PXC 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 APOGEE 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 PXC 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 PXC Compact operates stand-

alone or networked to perform complex control, monitoring, and energy management functions without relying on a higher-level processor.

The PXC 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 PXC 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 (B-BC) using the BACnet/IP protocol and/or BACnet MS/TP.

- Message control for terminals, printers, pagers, and workstations.
- Highly configurable I/O using Siemens state-of-the-art TX-I/O™ Technology.
- HMI 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 RS-485 P1 or MS/TP devices.
- Optional P1 Wireless FLN support.
- 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.

## The Compact Series

In addition to building and system management functions, the Compact Series includes several styles of controllers that flexibly meet application needs.

### PXC-16

The PXC-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).

### PXC-24

The PXC-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).

### PXC-36

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

major components:

- Input/Output Points
- Power Supply
- Controller Processor

## Input/Output Points

- The PXC Compact input/output points perform A/D or D/A conversion, signal processing, point command output, and communication with the 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

- 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
- 4-20 mA Analog Output
- Digital Output (using external relay)

- Dedicated Digital Input (DI) points (PXC-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 PXC Compact Series models support 0-10 Vdc Analog Output circuits.
- On PXC-24 and PXC-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 PXC

panels over the ALN.

- A Human Machine Interface (HMI) port, with a quick-connect phone jack (RJ-45), uses RS-232 protocol to support operator devices (such as a local user interface or simple CRT terminal), and a phone modem for dial-in service capability.
- A USB Device port supports a generic serial 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 PXC 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.

● The PXC-36 with an FLN license supports up to 96 RS-485 P1 or MS/TP devices.

- A Wireless FLN may also be used to replace the traditional P1 FLN cabling with wireless communication links that form a wireless mesh network. Additional hardware is required to implement the Wireless FLN.

For more information about FLN support, contact your local Siemens Industry representative.

### **Extended Temperature Operation**

PXC-24 "R" models support extended temperature operation, allowing for rooftop installations.

### **Web Server and Web Services**

The PXC Compact Series supports Web Server and Web Services functionality. The Web Server license provides an HTML Web-based user interface for your APOGEE 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 PXC Compact.

The Web Services must be used in conjunction with Web Server located on a PXC-36 or PXC Modular,

## Application Flexibility

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

The control program for each PXC Compact is customized to exactly match the application. Proven Powers Process Control Language (PPCL), a text-based programming structure like BASIC, provides direct digital control and energy management sequences to precisely control equipment and optimize energy usage.

## Global Information Access

The HMI port supports operator devices, such as a local user interface or simple CRT terminal, and a phone modem for dial-in service capability. Devices connected to the operator terminal port gain global information access.

## Multiple Operator Access

Multiple operators can access the network simultaneously. Multiple operator access ensures that

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)
- Alarm reporting and acknowledgment
- Continual display of dynamic information

## Built-in Direct Digital Control Routines

The PXC Compact provides stand-alone Direct Digital Control (DDC) to deliver precise HVAC control and comprehensive information about system operation. It receives information from sensors in the building, processes the information, and directly controls the equipment. The following functions are available in the PXC Compact:

- Adaptive Control, an auto-adjusting closed loop control algorithm, which provides more efficient,

## Built-In Energy Management

### Applications

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

- Temperature compensated duty cycling
- Temporary schedule override

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

Battery backup of Synchronous  
 Dynamic (SD) RAM (field  
 replaceable)  
 PXC-16 and PXC-24 Non-rooftop Models: 60 days (accumulated)  
 AA (LR6) 1.5 Volt Alkaline (non-rechargeable)  
 PXC-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

applications only)

USB Host port *on selected models* (for  
ancillary smoke control applications only).

Standard 1.1 and 2.0 USB host port, Type A female connector.

## Electrical

Power Requirements	24 Vac $\pm$ 20% input @ 50/60 Hz
Power Consumption (Maximum)	PXC-16: 18 VA @ 24 Vac PXC-24: 20 VA @ 24 Vac PXC-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)	<b>Analog Input</b> Voltage (0-10 Vdc) Current (4-20 mA)

**Analog Output (Universal Input/Output (U) points only)**

Voltage (0-10 Vdc)

Super Universal (X)

**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

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)

UL864 UUKL7 Smoke Control Equipment (except rooftop models)

CAN/ULC-S527-M8 (except rooftop models)

UL916 PAZX (all models)

UL916 PAZX7 (all models)

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.

PXC24.2-MR.A	PXC Compact, 24 point, MS/TP ALN, rooftop
PXC24.2-EF.A	PXC Compact, 24 point, BACnet/IP ALN, P1 or MS/TP FLN
PXC24.2-ERF.A	PXC Compact, 24 point, BACnet/IP ALN, rooftop, P1 or MS/TP FLN
PXC36-E.A	PXC Compact, 36 point, BACnet/IP or MS/TP ALN
PXC36-EF.A	PXC Compact, 36 point, BACnet/IP or MS/TP ALN, Island Bus, P1 or MS/TP FLN

### Optional Licenses

Product Number	Description
LSM-FLN	License to enable FLN support on PXC-16 or PXC-24 "F" models
LSM-FLN36.A	License to enable FLN support on models PXC36-E.A and PXC36-PE.A
LSM-IB36.A	License to enable 4 TX-I/O modules on the Island Bus on models PXC36-E.A and PXC36-PE.A
LSM-36.A	License to enable 4 TX-I/O modules on the Island Bus and FLN support on models PXC36-E.A and PXC36-PE.A
LSM-FPWEB	License to enable BACnet Field Panel Web Server (PXC-36) or Web Services (PXC-16/24)
LSM-SNMP	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

Product Number	Description
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
553-104	PXC Compact Series Owner's Manual
125-1896	APOGEE Powers Process Control Language (PPCL) User's Manual

Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced. APOGEE and Insight are registered trademarks of Siemens Industry, Inc. Other product or company names mentioned herein may be the trademarks of their respective owners. © 2012 Siemens Industry, Inc.

**Siemens Industry, Inc.**  
Building Technologies Division  
1000 Deerfield Parkway  
Buffalo Grove, IL 60089-4513  
U.S.A

Your feedback is important to us. If you have comments about this document, please send them to [SBT\\_technical.editor.us.sbt@siemens.com](mailto:SBT_technical.editor.us.sbt@siemens.com).

Document No. 149-206  
Printed in the USA  
**Page 12 of 32**

	PXC24.2-E.A			
	PXC24.2-ER.A			
	PXC24.2-EF.A			
	PXC24.2-ERF.A			
	PXC24.2-M.A			
	PXC24.2-MR.A			
	PXC36-E.A			
	PXC36-EF.A			

**Vendor Information**

Siemens Industry, Inc.  
 Building Technologies Division  
 1000 Deerfield Parkway  
 Buffalo Grove, IL 60089  
[www.buildingtechnologies.siemens.com/bt/us](http://www.buildingtechnologies.siemens.com/bt/us)

**Product Description**

An integral member of the APOGEE product family, the PXC Compact for BACnet Networks is a high performance, modular Direct Digital Control (DDC) supervisory equipment and primary building controller. The PXC Compact operates stand-alone or networked to perform complex control, monitoring and energy management functions without relying on a higher-level processor. The PXC 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
<b>Data Sharing</b>			
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		•

AE-ACK-B	Alarm and Event-ACK-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		•

<b>Trending</b>			
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		•

<b>Network Management</b>			
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 Inpute		
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.

<b>Analog Input Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \ Optional</b>
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
<b>Analog Output Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \ Optional</b>
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
<b>Analog Value Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>
Object_Identifier	Yes		R

Units	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
<b>Binary Input Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>
Object_Identifier	Yes		R

Out_Of_Service	Yes	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
<b>Binary Output Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>
Object_Identifier	Yes		R

Out_Of_Service	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
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
<b>Binary Value Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>

Out_Of_Service	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		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
<b>Calendar Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>

			Optional
Object_Identifier	Yes		R
Object_Name	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
<b>Device Object Type</b>			
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

Protocol_Services_Supported	Yes		R
Protocol_Object_Types_Supported	Yes		R
Object_List	Yes		R
Max_APDU_Length_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

Event_Type	Yes		R
Notify_Type	Yes	Yes	R
Event_Parameters	Yes	Yes	R
Object_Property_Ref	Yes		R
Event_State	Yes		R
Event_Enable	Yes	Yes	R
Acked_Transitions	Yes		R
Notification Class	Yes	Yes	R
Event_Time_Stamps	Yes		R
<b>File Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>
Object_Identifier	Yes		R
Object_Name	Yes		R
Object_Type	Yes		R
Description	Yes		O
File_Type	Yes		R
File_Size	Yes	Yes	R

Object_Name	Yes		R
Object_Type	Yes		R
Present_Value	Yes	Yes	W
Description	Yes	Yes	O
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

Object_Type	Yes		R
Present_Value	Yes	Yes	R
Description	Yes	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		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

Notification_Class	Yes		R
Priority	Yes	Yes	R
Ack_Required	Yes	Yes	R
Recipient_List	Yes	Yes	R
<b>Schedule Object Type</b>			
<b>Property_Identifier</b>	<b>Supported</b>	<b>Writable</b>	<b>Required \</b> <b>Optional</b>
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

Object_Type	Yes		N
Description	Yes	Yes	O
Log_Enable	Yes	Yes	W
Start_Time	Yes	Yes	O
Stop_Time	Yes	Yes	O
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

	ISO 8802-3, Ethernet (Clause 7)
	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____
•	MS/TP master (Clause 9), baud rate(s): 9600 bps, 19200 bps, 38400 bps, 76800 bps
	MS/TP slave (Clause 9), baud rate(s): _____
	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
-------------------------------------	-----

•	ANSI X3.4
	ISO 10646 (USC-2)
	IBM™/Microsoft™ DBCS
	ISO 10646 (ICS-4)
	ISO 8859-1
	JIS C 6226