



## **PG-139-102-AB Fike Cheetah to BACnet MSTP Protocol Converter**

PG-139-102-AB is highly powerful, superior, completely configurable and productive Building & Industrial Automation gateway for integrators to effortlessly interface devices to networks in commercial buildings and industrial plants.

PG-139-102-AB Gateway model supports Fike Cheetah and BACnet MSTP protocols. It is a Bi-directional Converter that can be configured as a Client on Fike Cheetah side and a Server/Client on BACnet MSTP protocol interface.

When configured as a Fike Cheetah client, the PG-139-102-AB can read data from your Fike Cheetah fire panel and publish it as BACnet MSTP data. Also, it can write commands sent from the BACnet MSTP side to the Fike Cheetah fire panel.

When configured as a BACnet MSTP client, the PG-139-102-AB can read data from your BACnet MSTP devices and publish it as Fike Cheetah type data. Also, it can write commands sent from the Fike Cheetah side to the BACnet MSTP devices.

The PG-139-102-AB can be configured to behave as a server on BACnet MSTP interfaces. This mode is useful when data exchange is required between a Fike Cheetah client (for eg. SCADA) and a BACnet MSTP client (for eg. a Building Management System).

The PG-139-102-AB can be configured to behave as a client on both Fike Cheetah and BACnet MSTP interfaces.

PG-139-102-AB gateways have benefitted system integrators worldwide with its powerful line of gateways. Additionally, PG-139-102-AB gateway runs the same protocol conversion software on a productive and cost efficient platform backed by the experience, engineering expertise and technically proven support that integrators have come to expect from PG-139-102-AB.

### **Features**

- Ability to interface upto 1000 points
- DIN rail mount optional
- DIP switches to select baud rate or node ID on the fly
- Multi-configuration capability
- BACnet COV support for fast data communication while reducing the traffic over a BACnet network



## Specifications

Environment	Operating Temperature: -40 to 75° C (-40 to 167°F)	
	Relative Humidity:5-90% RH non-condensing	
Power Requirements	9-30 VDC or 12-24 VAC	
	Current Draw @ 12V about 250Ma	
Physical Dimensions(HxWxD)	4.5x2.9x1.6 in. (11.5x7.4x4.1 cm)	
	0.4 lbs (0.2 Kg)	
Other	Configuration/Diagnostic utilities	
	Capacity: 1000 points	
	Table,Wall or DIN rail mount	
Communication Interfaces	RS-485	1
	RS-485 or RS-232	1
	Ethernet 10Base-T, 100BASE-T <sup>2</sup>	1
	Mbus	-
	KNX	-
	LonWorks	-
Approvals	TUV Approved to UL 916 and CSA C22.2 standards	
	BTL and LonMark certified	
	LonMark Certified	
	RoHS Compliant	
	GOST-R Certified	
	CE and FCC	



## Fike Cheetah Protocol Driver Description

Connection Facts		
Mode	Nodes	Comments
Client	1	Only one node per port
Formal Driver Type	Passive Client	
Connection Information		
Connection Type:	RS-232 or RS-485 (Two Wire, Half-Duplex)	
Baud Rates:	9600 (Vendor Limitation)	
Data Bits:	8 (Vendor Limitation)	
Stop Bits:	1 (Vendor Limitation)	
Parity:	None	
Multidrop Capability:	No	
Devices Tested		
Device	Tested	
Cybercat Panel	Factory	
Cheetah Panels	Site	
Fike Multi-Interface Module	Site	
Fike Cheetah Xi	Site	
CyberCat	Site	
Data Types Supported		
The driver does not transfer typed data.		
Passive Client Operations Supported		
As a Passive Client		



Graphics command (also known as command 6.0)
Command #1.0: send panel status - cheetah /evax
Command #1.2: send panel status - cyber-cat
Networked panel events (MIM): System & Device Troubles Device Alarms Vesda Events Device General, Supervisory Classic Cheetah Events from Gateway
<b>Write Operations Supported</b>
<b>As a Passive Client</b>
Acknowledgements are supported in a limited way.



## Unsupported Functions and Data Types

Function	Reason
Command #2.1: send history event - cyber cat Command #3.1: panel switch command - reset Command #3.2: panel switch command - acknowledge Command #3.3: panel switch command - silence Command #3.4: panel switch command - walktest Command #3.5: panel switch command - drill Command #3.16: panel switch command - process state de-activated in zone <d0> Command #3.17: panel switch command - process state activated in zone <d0> Command #3.33: panel switch command - turn off peripheral transmissions Command #3.34: panel switch command - restart peripheral transmissions Command #3.60: panel switch command - enable/disable ir communications Command #3.61: panel switch command - fan restart Command #7.4: panel requests status update from peripheral device Command #7.5: peripheral device response to to command #7.4	It is a data transfer device, and as such, programming messages are not required

## Functions Described

All three supported commands report zone and device states for multiple loops. Some panel status information is provided in the message and stored by the driver. Details are available in the manual.



## **Firmware Limitations & Capabilities**

### **Fike Cheetah Panel**

The following limitations to older firmware have been identified. It is unable to correlate this change with a particular Fike firmware version number at the current time.

Messages 1.1 and 6.0 (graphics update msg) are sent by older panels. Only message 6.0 contains information that can be used by the driver to reflect zone and device states. The 6.0 message is sent infrequently (typically 1 in 60 messages) and this results in a zone/device state update every few minutes.

#### **Message 6.0 Limitations**

- Can only report data for 127 zones. Data is limited to Alarm, Trouble, Pre-Discharge and Released states
- Can only report data for 127 devices on loops 1-4. Data is limited to Alarm, Trouble states.
- Message 1.1 - Older firmware
- No useful information about zones or devices.

#### **Message 1.1 – Newer Firmware**

- Supports zones 1-240. For zones the following states are reported: Abort, Trouble, Supervisory, Disabled, Pre-alarm, Alarm, Pre-Discharge, Released, Processed.
- Supports devices 1-127 on loops 1-4. For devices the following states are reported: Alarm, Pre-Alarm and Trouble

### **Fike XI Panel**

The XI panels send messages which contain zone and device data. The message is known by Fike as a '1.2' message.

The message reports if a device is normal, alarm, trouble or in a pre-discharge state. 256 Devices on loops 1-4 are reported. 255 Zones report Process, Trouble, Supervisory, Disable, Pre-Alarm, Alarm states.



## BACnet MS/TP Protocol Driver Description

<b>Driver Name: BACnet/MSTP</b>	Connection type:	RS-485 (Two wire, half-duplex)
	Baud Rates:	9600,19200,38400 and 76800 <sup>3</sup>
	Data Bits:	7,8
	Stop Bits:	1,2
	Parity:	Odd, Even, None
	Multidrop Capability:	Yes
<b>PG-139-102-AB AS A BACnet MS/TP CLIENT</b>		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Present Value	Store value in Data Array location after scaling has been applied
	Out_Of_Service	When using a Complex Data Object, the OOS property is fully supported. Return FALSE when not OOS or when using standard Data Arrays
	Units	Returns Units as specified in the Map Descriptor
	Reliability	When using a Complex Data Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays



	Priority_Array	Returns Priority_Array of Map Descriptor
	Unsupported	This property is supported
	Protocol_Object_Type_Supported	This property is supported
	Protocol_Services_Supported	This property is supported
	Database_Revision	This property is supported and will change if a new configuration is downloaded to the FS
	Max_Master	This property is supported for the BACnet /MSTP DLL option
	Max_Info_Frames	This property is supported for the BACnet/MSTP DLL option
	Relinquish_Default	Returns Relinquish_Default
	Mode	This property is supported.
	Tracking_Value	This property is supported.
Read Property Multiple	As for Read Property	Transactions can be defined to read multiple objects and properties in a single ReadPropertyMultiple operation.
	ALL	Read Property Multiple of the ALL property is NOT supported





Write Operations Supported	Properties Supported	Comments and Limitations
Write Property	Present Value	Send value in Data Array location after scaling has been applied
Write Property Multiple		
<b>PG-139-102-AB AS A BACnet MS/TP SERVER</b>		
<b>DEVICE OBJECT</b>		
Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	Returns Object_ID with Node_ID as Object Instance
	Object_Name	Returns Node Name
	Object_Type	Returns Device Object type
	System_Status	Returns Normal
	Vendor_Name	Returns PG-10XX Technologies
	Vendor_Identifier	Returns 37
	Model_Name	Returns PG-10XX model
	Firmware_revision	Returns Kernel Version
	Application_sw_version	Returns DCC version
	Protocol_Version	Returns version 1
	Protocol_Revision	Returns version 1
	Protocol_Services_Supported	This property is supported



	Protocol_Object_Type_Supported	This property is supported
	Protocol_Object_List	Returns a list of objects defined in the PG-10XX
	Max_APDU_Length_Accepted	For PG-10XX, the MAX APDU length for BACnet MSTP is 480 bytes and for BACnet IP/BACnet Eth 1497 bytes
	Segmentation_Supported	Returns Segmentation NOT Supported
	APDU_Timeout	Returns the value as defined by the Node's "Timeout" parameter
	APDU_Retries	Returns the value as defined by the Node's "Retries" parameter
	Device_Address_Bindings	Returns an empty list
	Max_Master	This property is supported for the BACnet/MSTP DLL option
	Max_info_Frames	This property is supported for the BACnet/MSTP DLL option
	Description	This property is supported
	Database_Revision	This property is supported and will change if a new configuration is downloaded to the PG-10XX
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple



		objects with multiple properties can be specified
<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitation</b>
Write Property	Max_Master	This Property is supported for the BACnet /MSTP DLL option
	Max_info_Frames	This Property is supported for the BACnet /MSTP DLL option
Write Property Multiple	Max_Master	This Property is supported for the BACnet /MSTP DLL option
	Max_info_Frames	This Property is supported for the BACnet /MSTP DLL option
<b>Analog Input Object</b>		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Object_Identifier	No Limitations
	Object_Name	Returns Map Descriptor Name
	Object_Type	Returns Analog Input Object Type
	Present_Value	Returns value in Data_Array after scaling has been applied
	Status_Flags	When using Complex Data Objects returns



		the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No Limitations
	Reliability	When using a Complex Data Objects, returns Unreliable Other when the Node is offline, or when the data is old. Returns FALSE if the node is online or when using Standard Data Arrays
	Out_Of_Service	Fully supported when using a Complex data Object. Returns FALSE when not OOS or when using standard Data Arrays
	Description	This property is supported
	Units	Returns Units as specified in the Map Descriptor
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with Multiple properties can be specified
<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and</b>



		<b>Limitations</b>
Write Property	Present_Value	Writing to the Present Value is allowed if the Object is OOS
Write Property Multiple		
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
SubscribeCOV	Present_value	Subscription storage is non-volatile
COVNotification	Present_value	Confirmed and Unconfirmed
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
EventNotification	Present_Value,Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No limitations
<b>Analog Output Object, Analog Value Object</b>		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Analog Output Object type
	Present_Value	Returns value in Data Array after scaling has been applied
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE



		fields as indicated in section 12.2.7 of the BACnet specification. When using standard Data Arrays returns FALSE for all bits
	Event_State	No Limitations
	Reliability	When using a Complex Data Objects, returns “Unreliable Other” when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays
	Units	Returns Units as specified in the Map Descriptor
	Priority_Array	Returns Priority_Array of Map Descriptor
	Description	This property is supported
	Relinguish_Default	Returns Relinguish_Default
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified



Write Operations Supported	Properties Supported	Comments and Limitations
Write Property	Present_Value	When using Complex Data Objects and OOS is TRUE, then the write will not cause a write-through operation to the Server side. If the OOS is FALSE or when using standard Data Arrays then writes will always cause a write-through operation to the Server side
Write Property Multiple		
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
SubscribeCOV	Present_Value	Subscription storage is non-volatile
COVNotification	Present_Value	Confirmed and Unconfirmed
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
<b>Binary Input Object</b>		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Object_Identifier	No Limitations



	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Analog Input Object type
	Present_Value	Returns the binary value in the data array
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification. When using standard Data Arrays returns FALSE for all bits
	Event_State	No Limitations
	Reliability	When using a Complex Data Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays
	Out_Of_Service	Fully supported when using Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays
	Polarity	Always returns "Normal"
	Active_Text	Returns Active Text as specified on the Map Descriptor
	Description	This property is





		supported
	Inactive_Text	Returns Inactive Text as specified on the Map Descriptor
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully supported. Multiple objects with multiple properties can be specified
<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Write Property	Present_Value	Writing to the Present Value is allowed if the Object is OOS
Write Property Multiple		
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
SubscribeCOV	Present_Value	Subscription storage is non-volatile
COVNotification	Present_Value	Confirmed and Unconfirmed
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations



Binary Output Object, Binary Value Object		
Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Analog Input Object type
	Present_Value	Returns the binary value in the data array
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification. When using standard Data Arrays returns FALSE for all bits
	Event_State	No Limitations
	Reliability	When using a Complex Data Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays
	Out_Of_Service	Fully supported when using Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays
	Priority_Array	Returns Priority_Array



		of Map Descriptor
	Relinguish_Default	Returns Current Relinguish_Default
	Description	This property is supported
	Active_Text	Returns Active Text as specified on the Map Descriptor
	Inactive_Text	Returns Inactive Text as specified on the Map Descriptor
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully supported. Multiple objects with multiple properties can be specified
<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Write Property	Present_Value	When using Complex Data Objects and OOS is TRUE, then the write will not cause a write-through operation to the downstream side. If the OOS is FALSE or when using standard Data Arrays when writes will always cause a write-through operation to the downstream side
Write Property Multiple		
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and</b>



		<b>Limitations</b>
SubscribeCOV	Present_Value	Subscription storage is non-volatile
COVNotification	Present_Value	Confirmed and Unconfirmed
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
Multiple State Input Object		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Analog Input Object type
	Present_Value	Returns unsigned Integer value in the data array
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification. When using standard Data Arrays returns FALSE for all bits
	Event_State	No Limitations
	Reliability	When using a Complex Data



		Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays
	Description	This property is supported
	Out_Of_Service	When using a Complex Data Object, the OOS property is fully supported. Returns FALSE when not OOS or when using standard Data Arrays
	Number_Of_State	When using a Complex Data Object, returns the number of states defined. When using Standard Data Arrays returns the value of 5
	State_Text	When using Complex Data Objects returns the State Text Strings defined. When using Standard Data Arrays return "State_X" where "X" is the value stored in Data_Array and could be 0 to 4
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully supported. Multiple objects with multiple properties can be specified



<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Write Property	Present_Value	Writing to the Present Value is allowed if the Object is OOS
Write Property Multiple		
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
SubscribeCOV	Present_Value	Subscription storage is non-volatile
COVNotification	Present_Value	Confirmed and Unconfirmed
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
<b>Multi-State Output Object, Multi-State Value Object</b>		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Analog Input Object type
	Present_Value	Returns unsigned Integer value in the data array
	Status_Flags	When using Complex Data Objects returns the FAULT and



		OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification. When using standard Data Arrays returns FALSE for all bits
	Event_State	No Limitations
	Reliability	When using a Complex Data Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays
	Out_Of_Service	Fully supported when using a Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays
	Number_Of_State	When using a Complex Data Object, returns the number of states defined. When using Standard Data Arrays returns the value of 5
	State_Text	When using Complex Data Objects returns the State Text Strings defined. When using Standard Data Arrays return "State_X" where "X" is the value stored in Data_Array and could be 0 to 4
	Description	This property is



		supported
	Priority_Array	Returns Priority_Array of Map Descriptor
	Relinguish_Default	Returns Relinguish_Default
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully supported. Multiple objects with multiple properties can be specified
<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Write Property	Present_Value	When using Complex Data Objects and OOS is FALSE or when using standard data arrays, writes will trigger a write through operation to client side
Write Property Multiple		
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
SubscribeCOV	Present_Value	Subscription storage is non-volatile
COVNotification	Present_Value	Confirmed and Unconfirmed
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations





<b>Notification Class Object</b>		
<b>Read Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Read Property	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Notification Class Object type
	Description	No Limitations
	Notification_Class	No Limitations
	Priority	No Limitations
	Ack_Required	No Limitations
	Description	This Property is supported
	Recipient List	No Limitations
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully supported. Multiple objects with multiple properties can be specified
<b>Write Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
Write Property	Recipient_List	RecipientList storage is non-volatile
Write Property Multiple		
AddList	RecipientList	Used to subscribe to Alarm and Event Notifications
<b>Life Safety Point Object</b>		



Read Operations Supported	Properties Supported	Comments and Limitations
Read Property	Object_Identifier	No limitations.
	Object_Name	Returns "Map Descriptor Name".
	Object_Type	Returns Analog Input Object type.
	Present_Value	Returns unsigned integer value in the Data Array.
	Status_Flags	When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in the Reference Section of the BACnet specification. When using standard Data Arrays returns FALSE for all bits.
	Event_State	No limitations.
	Reliability	When using a Complex Data Objects, returns "Unreliable Other" when the Node is offline, or when the data is old. Returns FALSE if the Node is online or when using Standard Data Arrays.
	Description	This property is supported.
	Out_Of_Service	When using a Complex Data Object, the OOS property is fully supported. Return FALSE when not OOS or when using standard Data Arrays.
	Mode	Operating Mode. Only 'ON' mode is supported.
	Accepted_Modes	List of Operating Modes
	Silenced	Represents silenced state, but only "All Silenced" supported.
	Operation_Expected	List of LifeSafety Operations, only 'None' operation is supported.
	Property_List	Returns the list of supported properties.
Read Property multiple	Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified.
Write Operations Supported	Properties Supported	Comments and Limitations
Write Property	Object_Name	Sets Object_Name.
	Present_Value	Writing to the Present Value is allowed if the



		Object is OOS.
	Mode	Operating Mode. Only 'ON' mode is supported.
	Operation_Expected	List of LifeSafety Operations, only 'None' operation is supported.
Write Property Multiple	Present_Value	Writing to the Present Value is allowed if the Object is OOS.
<b>Data Sharing Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
SubscribeCOV	Present_Value	Subscription storage is non-volatile.
COVNotification	Present_Value	Confirmed and Unconfirmed.
<b>Alarm and Event Operations Supported</b>	<b>Properties Supported</b>	<b>Comments and Limitations</b>
EventNotification	Present_Value, Status	Confirmed and Unconfirmed.
AcknowledgeAlarm	No Limitations.	
<b>Unsupported Functions and Data Types</b>		
<b>BACnet Object Type not Supported</b>		
Averaging Object		
Calendar Object		
Command Object		
Event Enrollment Object		
File Object		
Group Object		
Life Safety Zone Object		
Loop Object		
Notification Class Object unsupported on Client side only		
Program Object		
Schedule Object		



<b>BACnet Services not Supported</b>
Alarm and Event Services unsupported on Client side only
File Access Services
Virtual Terminal Services
COV and EventNotification services are not supported for BACnet
MSTP on the ProtoCessor
For BACnet MSTP , PTP and Arcnet , COV services are disabled by default and may be enabled by setting the Node_Option property to COV_Enable in the Nodes section configuration file.

## Dimensions:

