

PG-103-100-AA BACnet IP to Modbus RTU Protocol Converter

PG-103-100-AA 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-103-100-AA Gateway model supports BACnet IP and Modbus RTU protocols. It is a Bi-directional Converter that can be configured as a Client and/or a Server on either protocol interface.

When configured as a Modbus RTU client, the PG-103-100-AA can read data from your Modbus RTU devices and publish it as BACnet IP data. Also, it can write commands sent from the BACnet IP side to the Modbus RTU devices.

When configured as a BACnet IP client, the PG-103-100-AA can read data from your BACnet IP devices and publish it as Modbus RTU data. Also, it can write commands sent from the Modbus RTU side to the BACnet IP devices.

The PG-103-100-AA can be configured to behave as a server on both Modbus RTU and BACnet IP interfaces. This mode is useful when data exchange is required between a Modbus RTU client (for eg. SCADA) and a BACnet IP client (for eg. a Building Management System).

The PG-103-100-AA can be configured to behave as a client on both Modbus RTU and BACnet IP interfaces.

PG-103-100-AA gateways have benefitted system integrators worldwide with its powerful line of gateways. Additionally, PG-103-100-AA 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-103-100-AA.

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

Farringanant	Operating Temperature: -40 to 75° C	(-40 to 167°F)	
Environment	Relative Humidity:5-90% RH non-condensing		
Power	9-30 VDC or 12-24 VAC		
Requirements	Current Draw @ 12V about 250Ma		
Physical	4.5x2.9x1.6 in. (11.5x7.4x4.1 cm)		
Dimensions(HxWxD)	0.4 lbs (0.2 Kg)		
	Configuration/Diagnostic utilities		
Other	Capacity: 1000 points		
	Table, Wall or DIN rail mount		
	RS-485	2	
Communication	RS-232	-	
Interfaces	Ethernet 10Base-T, 100BASE-T ²	1	
	Mbus	-	
	KNX	-	
	LonWorks	-	
	TUV Approved to UL 916 and CSA C2	2.2 standards	
	BTL and LonMark certified		
Approvals	LonMark Certified		
Approvais	RoHS Compliant		
	GOST-R Certified		
	CE and FCC		

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BACnet IP Protocol Driver Description

	Connection type:	Internet Protocol (IP)
	Ethernet Speeds Supported:	10Base-T, 100BASE-T ²
Driver Name: BACnet/IP	BBMD SUPPORTED:	Yes(Not supported on client
		connections)
	Foreign Device:	Not Supported for client
	Registration:	Connections
PG-1	L03-100-AA AS A BACnet IP C	LIENT
Read Operations	Properties Supported	Comments and Limitations
Supported		
	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
Read Property		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
	May Master	the FS
	Max_Master	This property is supported for
	Max Info Frames	the BACnet /MSTP DLL option This property is supported for
	iviax_iiiio_riaiiies	the BACnet/MSTP DLL option
	Relinguish_Default	Returns Relinguish _ Default
	Veinignisii_Deiault	Verailis veililkaisii "Delaaif
Read Property Multiple	As for Read Property	Transactions can be defined to
head Froberty Widitiple	As for Near Froherry	Transactions can be defined to

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Write Operations Supported Write Property Write Property Multiple	Properties Supported Present Value	read multiple objects and properties in a single ReadPropertyMultiple operation. Read Property Multiple of the ALL property is NOT supported Comments and Limitations Send value in Data Array location after scaling has been applied
		аррпец
PG	6-103-100-AA AS A BACnet IP SE	RVER
DEVICE OBJECT		,
Read Operations Supported	Properties Supported	Comments and Limitations
	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
Read Property	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 Segmantation NOT Supported
	APDU_Timeout	Returns the value as defined by the Node's "Timeout" paramater
	APDU_Retries	Returns the value as defined by the Node's "Retries"



		no no no oto n
	De la Addres Birdina	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
Write Operations	Properties Supported	Comments and Limitation
Supported		
	Max_Master	This Property is supported for
	_	the BACnet /MSTP DLL option
Write Property	Max_info_Frames	This Property is supported for
		the BACnet /MSTP DLL option
	Max_Master	This Property is supported for
	_	the BACnet /MSTP DLL option
Write Property Multiple	Max_info_Frames	This Property is supported for
		the BACnet /MSTP DLL option
	- I	
Analog Input Object		
Read Operations	Properties Supported	Comments and Limitations
Supported	. reperties supported	
зарропса	Object Identifier	No Limitations
	Object_Name	Returns Map Descriptor Name
	Object_Type	Returns Analog Input Object
	Object_Type	Type
	Present Value	Returns value in Data_Array
	Fresent_value	
	Chahara Flaga	after scaling has been applied
Dood Droporty	Status_Flags	When using Complex Data
Read Property		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
		Allays returns I ALSE for all
		bits.



	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
., .,	The specific section of the specific sp	supported. Multiple objects
		with Multiple properties can
		be specified
Write Operations	Properties Supported	Comments and Limitations
Supported	Troperties supported	
Write Property		Writing to the Present Value is
Write Property Multiple	Present_Value	allowed if the Object is OOS
Time reperty manapie		
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported	торогино опристои	
		6.1
	Present value	Subscription storage is non-
SubscribeCOV	Present_value	Subscription storage is non-
SubscribeCOV		volatile
	Present_value Present_value	,
SubscribeCOV COVNotification	Present_value	volatile Confirmed and Unconfirmed
SubscribeCOV COVNotification Alarm and Event		volatile
SubscribeCOV COVNotification Alarm and Event Operations Supported	Present_value Properties Supported	volatile Confirmed and Unconfirmed Comments and Limitations
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification	Present_value	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed
SubscribeCOV COVNotification Alarm and Event Operations Supported	Present_value Properties Supported	volatile Confirmed and Unconfirmed Comments and Limitations
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm	Present_value Properties Supported Present_Value,Status	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm Analog Output Object, Ana	Present_value Properties Supported Present_Value,Status Alog Value Object	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No limitations
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm	Present_value Properties Supported Present_Value,Status	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm Analog Output Object, Ana Read Operations	Present_value Properties Supported Present_Value,Status Alog Value Object	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No limitations
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm Analog Output Object, Ana Read Operations	Present_value Properties Supported Present_Value,Status alog Value Object Properties Supported	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No limitations Comments and Limitations
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm Analog Output Object, Ana Read Operations	Present_value Properties Supported Present_Value,Status Properties Supported Object_Identifier	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No limitations Comments and Limitations No Limitations
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm Analog Output Object, Ana Read Operations Supported	Present_value Properties Supported Present_Value,Status Properties Supported Object_Identifier	Comments and Limitations Confirmed and Unconfirmed No limitations Comments and Limitations Comments and Limitations No Limitations Returns "Map Descriptor
SubscribeCOV COVNotification Alarm and Event Operations Supported EventNotification AcknowledgeAlarm Analog Output Object, Ana Read Operations Supported	Present_value Properties Supported Present_Value,Status alog Value Object Properties Supported Object_Identifier Object_Name	volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No limitations Comments and Limitations No Limitations Returns "Map Descriptor Name"



		operation to the Server side
		cause a write-through
		Arrays then writes will always
	Present_Value	Server side. If the OOS is FALSE or when using standard Data
	Drosont Value	write-through operation to the
		the write will not cause a
Write Property Multiple		Objects and OOS is TRUE, then
Write Property	_	When using Complex Data
Write Operations Supported	Properties Supported	Comments and Limitations
		be specified
		with multiple properties can
		supported. Multiple objects
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully
	Relinguish_Default	Returns Religuish _Default
	Description	This property is supported
		Descriptor
	Priority_Array	Returns Priority_Array of Map
		the Map Descriptor
	Units	Returns Units as specified in
		using standard Data Arrays
		FALSE when not OOS or when
		Complex Data Object. Returns
	Out_Of_Service	Fully supported when using a
		Data Arrays
		online or when using Standard
		Returns FALSE if the Node is
		offline, or when the data is old.
		Other" when the Node is
		Objects, returns "Unreliable
	Reliability	When using a Complex Data
	Event_State	No Limitations
		Arrays returns FALSE for all bits
		When using standard Data
		the BACnet specification.
		indicated in section 12.2.7 of
		OUT_OF_SERVICE fields as
		Objects returns the FAULT and
	Status_Flags	When using Complex Data
		after scaling has been applied
	Present_Value	Returns value in Data Array



Supported		
SubscribeCOV	Present_Value	Subscription storage is non-volatile
COVNotification	Present_Value	Confirmed and Unconfirmed
Alarm and Event	Properties Supported	Comments and Limitations
Operations Supported	Properties Supported	Comments and Limitations
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm	/	No Limitations
Binary Input Object		
Read Operations Supported	Properties Supported	Comments and Limitations
I-la	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
Read Property	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



		and aifing a continue NA con
		specified on the Map
		Descriptor
Dood Dropouty Multiple	Composition on Donal Dunmouth	Dood proporty Multiple is fully
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully
		supported. Multiple objects
		with multiple properties can
		be specified
Write Operations	Properties Supported	Comments and Limitations
-	Properties Supported	Comments and Limitations
Supported Write Draparty		Muiting to the Duscout Value is
Write Property	Present_Value	Writing to the Present Value is
Write Property Multiple		allowed if the Object is OOS
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported		
SubscribeCOV	Present_Value	Subscription storage is non-
		volatile
COVNotification	Present Value	Confirmed and Unconfirmed
Alarm and Event	Properties Supported	Comments and Limitations
Operations Supported		
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
Binary Output Object, Bina	ry Value Object	
Read Operations	Properties Supported	Comments and Limitations
Supported		
	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
Read Property	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
	Ť	
		Arrays returns FALSE for all bits



	Reliability Out_Of_Service	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 Fully supported when using Complex Data Object. Returns
	Priority_Array	FALSE when not OOS or when using standard Data Arrays Returns Priority_Array of Map
	Religuish_Default	Descriptor Returns Current Relinguish_Default This property is supported
	Description Active_Text	This property is supported 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
Write Operations Supported	Properties Supported	Comments and Limitations
Write Property Write Property Multiple	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
Data Sharing Operations Supported	Properties Supported	Comments and Limitations
SubscribeCOV	Present_Value	Subscription storage is non-volatile



COVNotification	Present Value	Confirmed and Unconfirmed
	-	
Alarm and Event	Properties Supported	Comments and Limitations
Operations Supported		
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
Multiple State Input Object		
Read Operations	Properties Supported	Comments and Limitations
Supported		
	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
Road Proporty		indicated in section 12.2.7 of
Read Property		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
	out_or_service	Object, the OOS property is
		fully supported. Returns FALSE
		when not OOS or when using
		_
	Number Of State	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
		Codia de o to 4
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully
		supported. Multiple objects
		with multiple properties can
		be specified
Write Operations	Properties Supported	Comments and Limitations
Supported		
Write Property	Present_Value	Writing to the Present Value is
Write Property Multiple	r resent_value	allowed if the Object is OOS
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported SubscribeCOV	Procent Value	Subscription storage is non
SubscribeCOV	Present_Value	Subscription storage is non- volatile
COVNotification	Drocont Value	Confirmed and Unconfirmed
COVNOLINCATION	Present_Value	Commined and Oncommined
		1
Alarm and Event	Properties Supported	Comments and Limitations
	Properties Supported	Comments and Limitations
Alarm and Event Operations Supported Event Notification	Properties Supported Present_Value, Status	Comments and Limitations Confirmed and Unconfirmed
Operations Supported		
Operations Supported Event Notification	Present_Value, Status	Confirmed and Unconfirmed
Operations Supported Event Notification AcknowledgeAlarm	Present_Value, Status	Confirmed and Unconfirmed
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object,	Present_Value, Status Multi-State Value Object	Confirmed and Unconfirmed No Limitations
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name"
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array When using Complex Data
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array When using Complex Data Objects returns the FAULT and
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification.
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array 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
Operations Supported Event Notification AcknowledgeAlarm Multi-State Output Object, Read Operations Supported	Present_Value, Status Multi-State Value Object Properties Supported Object_Identifier Object_Name Object_Type Present_Value	Confirmed and Unconfirmed No Limitations Comments and Limitations No Limitations Returns "Map Descriptor Name" Returns Analog Input Object type Returns unsigned Integer value in the data array When using Complex Data Objects returns the FAULT and OUT_OF_SERVICE fields as indicated in section 12.2.7 of the BACnet specification.



Reliability When using a Complex D Objects, returns "Unrelia Other" when the Node is offline, or when the data Returns FALSE if the Node online or when using State Data Arrays Out_Of_Service Fully supported when using State Complex Data Object. Reference of the Node of State Data Arrays	able s a is old. de is
Other" when the Node is offline, or when the data Returns FALSE if the Node online or when using State Data Arrays Out_Of_Service Fully supported when using State of Service Fully supported when using State of Service State o	s a is old. de is
offline, or when the data Returns FALSE if the Not online or when using Sta Data Arrays Out_Of_Service Fully supported when us	a is old. de is
Returns FALSE if the Noo online or when using Sta Data Arrays Out_Of_Service Fully supported when us	de is
Out_Of_Service online or when using State Data Arrays Fully supported when using State Data Arrays	
Out_Of_Service Data Arrays Fully supported when us	andard
Out_Of_Service Fully supported when us	
Complex Data Object. Re	sing a
	eturns
FALSE when not OOS or	when
using standard Data Arra	avs
Number_Of_State When using a Complex D	•
Object, returns the num	
states defined. When us	
	_
Standard Data Arrays reint the value of 5	turris
State_Text When using Complex Da	
Objects returns the State	
Strings defined. When u	•
Standard Data Arrays re	
"State_X" where "X" is t	
value stored in Data_Arr	ray and
could be 0 to 4	
Description This property is supported	ed
Priority_Array Returns Priority_Array o	of Map
Descriptor	
Religuish_Default Returns Relinguish_Defa	ault
Read Property Multiple Same properties as Read Property Read property Multiple	•
supported. Multiple obje	ects
with multiple properties	can
be specified	
Write Operations Properties Supported Comments and Limita	tions
Supported	
Write Property When using Complex	Data
Write Property Multiple Objects and OOS is FAI	
when using standard	
Present_Value arrays, writes will trig	
write through operation	•
client side	on to
Client side	
Data Shaving Operations Droporties Supported Comments and Limits	tions
Data Sharing Operations	ILIONS
Supported	
SubscribeCOV Present_Value Subscription storage is no volatile	ion-



COVNotification	Present Value	Confirmed and Unconfirmed
	1.0001 a.a.	
Alarm and Event	Properties Supported	Comments and Limitations
Operations Supported	т оролого опрремен	
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
Notification Class Object		
Read Operations	Properties Supported	Comments and Limitations
Supported		
Сирропси	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor
		Name"
	Object_Type	Returns Notification Class
		Object type
Read Property	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
W.' O	Book at the Control of	
Write Operations	Properties Supported	Comments and Limitations
Supported		5
Write Property	Recipient_List	RecipientList storage is non-
Write Property Multiple	. –	volatile
AddList	RecipientList	Used to subscribe to Alarm
		and Event Notifications
Unsupported Functions A	nd Data Tunos	
• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	
BACnet Object Type not S	Supported	
Averaging Object		
Calendar Object		
Command Object Front Enrollment Object		
Event Enrollment Object		
File Object		
Group Object		
Life Safety Point Object		
Life Safety Zone Object		



Loop Object	
Notification Class Object unsupported on Client side only	
Program Object	
Schedule Object	
BACnet Services not Supported	
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.	

Modbus RTU

Modbus RTU Protocol Driver Description

PG-103-100-AA Mode	Comments	
Client	Nodes:1 Only 1 client node allowed on Multidrop systems	
Server	Nodes:255 Actual electrical loading may reduce number of	
	usable server nodes	
Formal Driver Type	Serial	
Formal Driver Type	Client or Server	
	Connection Type: RS-232 or RS-485(Two wire, half-duplex)	
	Baud Rate: 110-115200, standard baud rates only	
Connection Information	Data Bits: 7,8	
	Parity: Even, odd, None	
	Multidrop Compatibility: Yes	
Function Code Supported		
Function Codes	Description	
01	Read Discrete Output Status (0xxxx)	
02	Read Discrete Input Status (1xxxx)	
03	Read Output Registers (4xxxx)	
04	Read Input Registers (3xxxx)	
05	Force Single Coil (0xxxx)	
06	Preset Single Register (4xxxx)	
15	Force Multiple Coils (0xxxx)	
16	Preset Multiple Registers (4xxxx)	

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