

PG-102-106-AA BACnet MS/TP to JCI Metasys N2 Protocol Converter

PG-102-106-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-102-106-AA Gateway model supports BACnet MS/TP and JCI Metasys N2 protocols. It is a Bidirectional Converter that can be configured as a Client and/or a Server on either protocol interface.

When configured as a JCI Metasys N2 client, the PG-102-106-AA can read data from your JCI Metasys N2 devices and publish it as BACnet MS/TP data. Also, it can write commands sent from the BACnet MS/TP side to the JCI Metasys N2 devices.

When configured as a BACnet MS/TP client, the PG-102-106-AA can read data from your BACnet MS/TP devices and publish it as JCI Metasys N2 data. Also, it can write commands sent from the JCI Metasys N2 side to the BACnet MS/TP devices.

The PG-102-106-AA can be configured to behave as a server on both JCI Metasys N2 and BACnet MS/TP interfaces. This mode is useful when data exchange is required between a JCI Metasys N2 client (for eg. SCADA) and a BACnet IP client (for eg. a Building Management System).

The PG-102-106-AA can be configured to behave as a client on both JCI Metasys N2 and BACnet MS/TP interfaces.

PG-102-106-AA gateways have benefitted system integrators worldwide with its powerful line of gateways. Additionally, PG-102-106-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-102-106-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

	Operating Temperature: -40 to 75° C	(-40 to 167°F)
Environment	Relative Humidity:5-90% RH non-condensing	
	Theracave transmately is 30% that from ear	
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 C22.2 standards	
	BTL and LonMark certified	
Approvals	LonMark Certified	
Approvais	RoHS Compliant	
	GOST-R Certified	
	CE and FCC	



BACnet MS/TP Protocol Driver Description

	Connection type:	RS-485 (Two wire, half-duplex)
	Baud Rates:	9600,19200,38400 and 76800 ³
Driver Name:	Data Bits:	7,8
BACnet/MSTP	Stop Bits:	1,2
BACILEY WIST	Parity:	Odd, Even, None
	Multidrop Capability:	Yes
PG-1	.02-106-AA AS A BACnet MS/TF	CLIENT
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
	D. 1: 1:11:	the Map Descriptor
	Reliability	When using a Complex Data
		Objects, returns "Unreliable Other" when the Node is
Road Broporty		offline, or when the data is old.
Read Property		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

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		the BACnet /MSTP DLL option
	Max_Info_Frames	This property is supported for
	Wax_inio_rraines	the BACnet/MSTP DLL option
	Relinguish Default	Returns Relinguish _Default
	Kellinguish_Deluule	Neturis Neiniguisii _Beluult
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
Weite Onevetions	Duo no ution Commonted	Comments and Limitations
Write Operations	Properties Supported	Comments and Limitations
Supported		Conduction Data Assess
Write Property Write Property Multiple	Present Value	Send value in Data Array location after scaling has been applied
PG-10	2-106-AA AS A BACnet MS/TP	SERVER
DEVICE OBJECT	2 100 AA AS A BACHEL WIS/ II	JERVER
Read Operations	Properties Supported	Comments and Limitations
Supported	The state of the s	
	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
Read Property	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 Segmantation NOT Supported
	APDU_Timeout	Returns the value as defined



	La tha Na data ((T' an an 17)
	by the Node's "Timeout"
ADDII Detrice	paramater
APDU_Retries	Returns the value as defined
	by the Node's "Retries"
Davisa Addusas Bindinas	parameter
	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
Same properties as Read Property	Read Property Multiple is fully supported. Multiple objects with multiple properties can be specified
Properties Supported	Comments and Limitation
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
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
Properties Supported	Comments and Limitations
Object Identifier	No Limitations
	Returns Map Descriptor Name
	Returns Analog Input Object
00,000_1,460	Type
Present Value	Returns value in Data Array
	after scaling has been applied
Status Flags	When using Complex Data
	Objects returns the FAULT and
1	1
	I OUT OF SERVICE fields as
	OUT_OF_SERVICE fields as indicated in section 12.2.7 of
	indicated in section 12.2.7 of
	Description Database_Revision Same properties as Read Property Properties Supported Max_Master Max_info_Frames Max_info_Frames Max_info_Frames



		bits.
	Event_State	No Limitations
	Reliability	When using a Complex Data
	Nemasiney	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
	2	using standard Data Arrays
	Description	This property is supported
	Units	Returns Units as specified in the Map Descriptor
Danid Dunamento & A. J. C. L.	Companyation - Book Book	Daniel Dunamento & Maria Carlo
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	Tresent_value	allowed if the Object is OOS
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported	торогого опростоя	
SubscribeCOV	Present value	Subscription storage is non-
	_	volatile
COVNotification	Present_value	Confirmed and Unconfirmed
Alarm and Event	Properties Supported	Comments and Limitations
Operations Supported		
EventNotification	Present_Value,Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No limitations
Analog Output Object, Ana	T	
Read Operations Supported	Properties Supported	Comments and Limitations
	Object_Identifier	No Limitations
Read Property	Object_Name	Returns "Map Descriptor Name"
	Object_Type	Returns Analog Output Object type



	Present_Value	Returns value in Data Array
	1.00010.000	after scaling has been applied
	Status_Flags	When using Complex Data
	10	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
	2:	the Map Descriptor
	Priority_Array	Returns Priority_Array of Map
	Barriella	Descriptor
	Description Default	This property is supported
	Relinguish_Default	Returns Religuish _Default
Read Property Multiple	Same properties as Read Property	Read Property Multiple is fully
The state of the s	Tame proposed as reasons reperty	supported. Multiple objects
		with multiple properties can
		be specified
Write Operations Supported	Properties Supported	Comments and Limitations
Write Property		When using Complex Data
Write Property Multiple		Objects and OOS is TRUE, then
		the write will not cause a
		write-through operation to the
	Present_Value	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
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported		
SubscribeCOV	Present_Value	Subscription storage is non-
54250110CCO V	1. Cocinc_value	Sasseription 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 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 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
	Frant State	Arrays returns FALSE for all bits No Limitations
	Event_State	
	Reliability	When using a Complex Data Objects, returns "Unreliable
Read Property		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 Prop	erty 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	Writing to the Present Value is allowed if the Object is OOS
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 Operations Supported	Properties Supported	Comments and Limitations
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
Binary Output Object, Bina	m. Value Object	
Read Operations	Properties Supported	Comments and Limitations
Supported	1 roperties supported	Comments and Emitations
	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 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
	Priority_Array	using standard Data Arrays Returns Priority_Array of Map Descriptor
	Religuish_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
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
	Properties Supported	Comments and Limitations
Alarm and Event Operations Supported	Troportion cupperton	
Alarm and Event Operations Supported Event Notification	Present_Value, Status	Confirmed and Unconfirmed



Read Operations	Properties Supported	Comments and Limitations
Supported		
	Object_Identifier	No Limitations
	Object_Name	Returns "Map Descriptor
	Object Type	Name"
	Object_Type	Returns Analog Input Object type
	Present_Value	Returns unsigned Integer value
	Tresent_value	in the data array
	Status_Flags	When using Complex Data
		Objects returns the FAULT and
		OUT_OF_SERVICE fields as
Read Property		indicated in section 12.2.7 of
Redd Froperty		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
	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
Read Property Multiple	Same properties as Read Property	Read property Multiple is fully
nead Froperty Multiple	Jame properties as head Property	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	Present_value	allowed if the Object is OOS
		1.
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported		
SubscribeCOV	Present_Value	Subscription storage is non-
COVNotification	Present Value	volatile Confirmed and Unconfirmed
COVNOTILICATION	Fresent_value	Commined and Oncommined
Alarm and Event	Properties Supported	Comments and Limitations
Operations Supported	. торогиез саррогие	
Event Notification	Present_Value, Status	Confirmed and Unconfirmed
AcknowledgeAlarm		No Limitations
Multi-State Output Object	t, Multi-State 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
	2	type
	Present_Value	Returns unsigned Integer value
	Status_Flags	in the data array When using Complex Data
	Status_Hags	Objects returns the FAULT and
		OUT_OF_SERVICE fields as
		indicated in section 12.2.7 of
		the BACnet specification.
		When using standard Data
Read Property		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
	341_31_3614166	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
		Object, returns the number of
		states defined. When using
		Standard Data Arrays returns
	S	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
	Religuish_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	Properties Supported	Comments and Limitations
Supported		
Write Property		When using Complex Data
Write Property Multiple		Objects and OOS is FALSE or
' ' '		when using standard data
	Present_Value	arrays, writes will trigger a
		write through operation to
		client side
Data Sharing Operations	Properties Supported	Comments and Limitations
Supported	- Programme and	
SubscribeCOV	Present_Value	Subscription storage is non-
Subscribceo v	Tresent_value	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
- · · · · · · · · · · · · · · · · · · ·		1
Notification Class Object		
Read Operations	Properties Supported	Comments and Limitations
iteau operations	1 Tope ties supported	Comments and Emilitations
Supported		
Supported		No Limitations
	Object_Identifier	No Limitations Returns "Map Descriptor
Supported Read Property		No Limitations 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		
Write Operations	Properties Supported	Comments and Limitations		
Supported				
Write Property	Recipient List	RecipientList storage is non-		
Write Property Multiple	Nedipient_Eist	volatile		
AddList	RecipientList	Used to subscribe to Alarm		
		and Event Notifications		
Unsupported Functions A	nd Data Types			
BACnet Object Type not S	upported			
Averaging Object				
Calendar Object				
Command Object				
Event Enrollment Object				
File Object				
Group Object				
Life Safety Point Object				
Life Safety Zone Object				
Loop Object				
	upported on Client side only			
Program Object				
Schedule Object				
BACnet Services not Supp	orted			
	supported on Client side only			
File Access Services	Supported on enemy side only			
Virtual Terminal Services				
	ervices are not supported for BACnet			
MSTP on the ProtoCessor				
	Arcnet , COV services are disabled by def	fault and mav be enabled by		
	perty to COV_Enable in the Nodes section	· · · · · · · · · · · · · · · · · · ·		
	<u></u>			



JCI Metasys N2 Protocol Driver Description

PG-102-106-AA Mode	Comments		
Client	Nodes: 1 Only 1 client node allowed on Multidrop systems. Can		
	communicate with:		
	- N2Open		
	- VMA 1400 series (AI,	BI, AO, BO and custom types)	
	-DX9100/XT9100		
Server	Nodes: 255		
	Serial		
Formal Driver Type	Client		
	Server		
Connection Information	<u> </u>		
Connection type:	RS-485 (Two-wire, Half Duplex)		
Baud Rates:	9600 (N2 Standard)		
Data Bits:	8		
Stop Bits:	1		
Parity:	None		
Multidrop Capability:	Yes		
Multidrop Capability.	163		
N2Open Functions:			
Data Type Supported			
PG-102-106-AA Data	Description	Description	
Туре			
Analog_Input	Analog Input (AI)		
Digital_Input	Binary Input (BI)		
Analog_Output	Analog Output (AO)		
<u> </u>	Binary Output (BO)		
Digital_Output			
	Internal Float value (AD	·	
Digital_Output		·	
Digital_Output Float_Reg	Internal Float value (AD	ADI)	
Digital_Output Float_Reg Integer Byte	Internal Float value (AD Internal Integer value (AD Internal Byte value (BD	ADI)	
Digital_Output Float_Reg Integer	Internal Float value (AD Internal Integer value (AD Internal Byte value (BD	ADI)	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie	Internal Float value (AD Internal Integer value (AD Internal Byte value (BD In	PG-102-106-AA As a Server	
Digital_Output Float_Reg Integer Byte Read Operations Suppo	Internal Float value (AD Internal Integer value (Internal Byte value (BD Internal Byte value (BD Inter	ADI)	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of	Internal Float value (AD Internal Integer value (BD Internal Byte value (BD Internal Byte value (BD Internal Byte value (BD Internal Byte value (BD Integrated Byte value (BD	PG-102-106-AA As a Server Read Current Value (all data types) direct read,	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of –State (COS)	Internal Float value (AD Internal Integer value (Internal Byte value (BD Internal Byte value (BD Inter	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of -State (COS)) Read Attribute (all data)	Internal Float value (AD Internal Integer value (Internal Byte value (BD Internal Byte value (BD Inter	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll Read Attribute (all data types): direct read,	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of —State (COS)) Read Attribute (all data is specifying a legal attribute)	Internal Float value (AD Internal Integer value (BD Internal Byte value (BD Internal Byte value (BD Internal Byte value (BD Internal Byte value (BD Integrated Byte value (BD Internal Byte value (BD Integrated Byte value (BD Internal Byte value (BD Internal Byte value (BD Integrated Byte value (BD Integr	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll Read Attribute (all data types): direct read, specifying a legal attribute number	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of -State (COS)) Read Attribute (all data is specifying a legal attribut Identify Self Command	Internal Float value (AD Internal Integer value (Internal Integer value (Internal Byte value	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll Read Attribute (all data types): direct read, specifying a legal attribute number Identify Self Command	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of –State (COS)) Read Attribute (all data is specifying a legal attribut Identify Self Command Read All Attributes (Options)	Internal Float value (AD Internal Integer value (Internal Integer value (Internal Byte value	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll Read Attribute (all data types): direct read, specifying a legal attribute number Identify Self Command Read All Attributes (Optional): These commands	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of —State (COS)) Read Attribute (all data is specifying a legal attribut Identify Self Command Read All Attributes (Option are used to read all attri	Internal Float value (AD Internal Integer value (Internal Integer value (BD Internal Byte value (BD In	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll Read Attribute (all data types): direct read, specifying a legal attribute number Identify Self Command Read All Attributes (Optional): These commands are used to read all attributes of specified	
Digital_Output Float_Reg Integer Byte Read Operations Suppo PG-102-106-AA As a Clie Read Current Value (all of Change-of —State (COS)) Read Attribute (all data is specifying a legal attribut Identify Self Command Read All Attributes (Optiare used to read all attri (Analog Input, Binary Ing	Internal Float value (AD Internal Integer value (Internal Integer value (BD Internal Byte value (BD In	PG-102-106-AA As a Server Read Current Value (all data types) direct read, Change-of –State (COS) poll Read Attribute (all data types): direct read, specifying a legal attribute number Identify Self Command Read All Attributes (Optional): These commands are used to read all attributes of specified (Analog Input, Binary Input, Analog Output,	

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Write (Control) Operati	ons Supported		
PG-102-106-AA As a Client 2		PG-102-106-AA As a Server 2	
Override Current Value (All data types)		Override Current Value (All data types)	
implemented as Write on PG-102-106-AA		implemented as Write on PG-102-106-AA	
Override Release (all data types)		Override Release (all data types)	
Write Attribute (all data types) direct write,		Write Attribute (all data types) direct write,	
specifying a legal attribute number		specifying a legal attribute number	
Write characterize Attributes (Optional). The			
commands are used to set all attributes that		commands are used to set all attributes that	
characterize the specified (Analog Input, Bina		ary characterize the specified (Analog Input, Binary	
Input, Analog Output or Binary Output) object		ct Input, Analog Output or Binary Output) object	
without specifying an attribute number.		without specifying an attribute number.	
Write Internal Parameter Command (Options		al). Write Internal Parameter Command (Optional).	
This command is used to change the value		This command is used to change the value	
attribute of internal parameter objects with		out attribute of internal parameter objects without	
specifying an attribute r	ıumber.	specifying an attribute number.	
Unsupported Functions	and Data Types		
Function		Reason	
Read Memory		Not Required	
Diagnostics		Not nequired	
Warm Start		Not Required	
Message		Not kequiled	
Status Update		Not Required	
Message		Not kequiled	
Programming messages (download, upload)		Not Required PG-102-106-AA is a data transfer device)	
Time Synch		Time Synch	
Not supported		PG-102-106-AA clocks are updated on receipt of this command.	
VMA Functions:			
Data Types Supported			
PG-102-106-AA Data	Description		
Туре			
Analog_Input	Analog Input (AI)		
Digital_Input	Binary Input (BI)	Binary Input (BI)	
Analog_Output	Analog Output (AO)		
Digital_Output	Binary Output (BO)		
Float_Reg	Internal Float value (ADF)		
Integer	Internal Integer value (ADI)		
Byte	Internal Byte value (BD)		
Dood Organstians Comme	ustaal		
Read Operations Suppo	rtea		
PG-102-106-AA As a Clie	ent	PG-102-106-AA As a Server	
Read Current value (all data types)		Not Applicable	



Direct Read, Change-of-S	tate (COS) poll			
	тине (000) рол			
Write (Control) Operation	ns Supported			
PG-102-106-AA As a Clie		PG-102-106-AA As a Server		
Write/Override Current v	value (all data			
types) implemented as Write on PG-102-				
106-AA		Not Applicable		
Override Release (Al and Bl only) uses		''		
writes for outputs and internal values				
Unsupported Functions	and Data Types			
Function		Reason		
Programming messages(upload,download)	Not required – PG-102-106-AA is a data transfer device		
DX9100 Functions:				
Data Types Supported				
PG-102-106-AA Data	Description			
Туре				
	Supported sections of Address Map:			
	General control module			
	Programmable modules 1-12			
	Analog input modules 1-8			
	Analog output modules 1-2			
	Digital output modules 3-8			
	Extension modules 1-8			
	Time schedules 1-8			
	Optimal start/stop modules 1-2			
	Analog output modules 9-10			
	Auxiliary analog output modules 11-13			
Read Operations Suppor	ted			
PG-102-106-AA As a Client		PG-102-106-AA As a Server		
Read of all points suppor	ted	Not Applicable		
Write (Control) Operation	• • •			
PG-102-106-AA As a Client		PG-102-106-AA As a Server		
Write of all points support				
DX9100 may not allow writes to specific		Not Applicable		
values				
Unsupported Functions and Data Types				
Function		Reason		
Programming messages		Not required – PG-102-106-AA is a data transfer device		



