PG-102-105-AC BACnet MS/TP to LonWorks Protocol Converter

PG-102-105-AC 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-102-105-AC Gateway model supports BACnet MS/TP and LonWorks 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 LonWorks client, PG-102-105-AC can read data from your LonWorks devices and publish it as BACnet MS/TP data. Also, it can write commands sent from the BACnet MS/TP side to the LonWorks devices.

When configured as a BACnet MS/TP client, the PG-102-105-AC can read data from your BACnet MS/TP devices and publish it as LonWorks data. Also, it can write commands sent from the LonWorks side to the BACnet MS/TP devices.

PG-102-105-AC can be configured to behave as a server on both LonWorks and BACnet MS/TP interfaces. This mode is useful when data exchange is required between a LonWorks client (for eg. SCADA) and a BACnet IP client (for eg. a Building Management System).

The PG-102-105-AC can be configured to behave as a client on both LonWorks and BACnet MS/TP interfaces.

PG-102-105-AC gateways have benefitted system integrators worldwide with its powerful line of gateways. Additionally, PG-102-105-AC 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-102-105-AC.

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

| Farring amount | 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 | - | |
| Communication | RS-232 | - | |
| Interfaces | Ethernet 10Base-T, 100BASE-T ² | 1 | |
| | Mbus | - | |
| | KNX - | | |
| | | | |
| | 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 |
| BACHEGIVISTE | Parity: | Odd, Even, None |
| | Multidrop Capability: | Yes |
| | Multidiop Capability. | res |
| PG-102 | 2-105-AC AS A BACnet MS/TP | 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 |
| | | 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 |
| nead reperty | | 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 |
| | Relinguish Default | Returns Relinguish _Default |
| | 0 | |
| | As for Read Property | Transactions can be defined to |
| | 7.5.51 Reda Froperty | read multiple objects and |
| | | properties in a single |
| Read Property Multiple | | ReadPropertyMultiple |
| | | operation. |
| | ALL | Read Property Multiple of the |
| | , .c.L | I head i toperty Multiple of the |

| | | ALL property is NOT supported |
|---|--------------------------------|---|
| Write Operations Supported | Properties Supported | Comments and Limitations |
| Write Property Write Property Multiple | Present Value | Send value in Data Array location after scaling has been applied |
| PG-1 | .02-105-AC AS A BACnet MS/TP | SERVER |
| 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 |
| | Protocol_Object_Type_Supported | This property is supported |
| | Protocol_Object_List | Returns a list of objects |
| | | defined in the PG-10XX |
| Read Property | 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" 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 Supported | Properties Supported | Comments and Limitation |
| Write Property | Max_Master | This Property is supported for the BACnet /MSTP DLL option |
| Write Froperty | Max_info_Frames | This Property is supported for the BACnet /MSTP DLL option |
| Marie Barrett MA History | 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 |
| Analog Input Object | | |
| Read Operations Supported | Properties Supported | Comments and Limitations |
| •• | 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. |
| Read Property | 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 |
|--|----------------------|--|
| 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 | Properties Supported | Comments and Limitations |
| Operations Supported | | |
| EventNotification | Present_Value,Status | Confirmed and Unconfirmed |
| AcknowledgeAlarm | | No limitations |
| Analog Output Object, Ana | alog Value Object | |
| Read Operations Supported | Properties Supported | Comments and Limitations |
| опристем | 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 |
| 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 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 Religuish _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 Operations Supported Write Property | Properties Supported | When using Complex Data |
| Write Property Multiple | Present_Value | 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 |
| | | |
| Data Sharing Operations Supported | Properties Supported | Comments and Limitations |
| SubscribeCOV | Present_Value | Subscription storage is non-volatile |
| COVNotification | Present_Value | Confirmed and Unconfirmed |
| | T | |
| Alarm and Event Operations Supported | Properties Supported | Comments and Limitations |
| Event Notification | Present_Value, Status | Confirmed and Unconfirmed |
| AcknowledgeAlarm | Present_value, Status | No Limitations |
| Binary Input Object | Duna antica Commanda d | |
| Read Operations Supported | Properties Supported | Comments and Limitations |
| - appoited | Object_Identifier | No Limitations |
| | Object_Name | Returns "Map Descriptor Name" |
| | Object_Type | Returns Analog Input Object type |
| Dood Day and | 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 |
| | Out_Of_Service | Data Arrays Fully supported when using Complex Data Object. Returns FALSE when not OOS or when using standard Data Arrays |
| | Polarity Active_Text | Always returns "Normal" Returns Active Text as specified on the Map Descriptor |
| | Description Inactive_Text | This property is supported 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 |
| | | Writing to the Present Value is |
| Write Property Write Property Multiple | Present_Value | allowed if the Object is OOS |
| Write Property Multiple Data Sharing Operations | Present_Value Properties Supported | |
| Write Property Multiple | | allowed if the Object is OOS |
| Write Property Multiple Data Sharing Operations Supported | Properties Supported | Comments and Limitations Subscription storage is non- |
| Write Property Multiple Data Sharing Operations Supported SubscribeCOV | Properties Supported Present_Value | Comments and Limitations Subscription storage is non-volatile |
| Write Property Multiple Data Sharing Operations Supported SubscribeCOV COVNotification Alarm and Event | Properties Supported Present_Value Present_Value | Comments and Limitations Subscription storage is non-volatile Confirmed and Unconfirmed |
| Write Property Multiple Data Sharing Operations Supported SubscribeCOV COVNotification Alarm and Event Operations Supported | Properties Supported Present_Value Present_Value Properties Supported | Comments and Limitations Subscription storage is non-volatile Confirmed and Unconfirmed Comments and Limitations |
| Data Sharing Operations Supported SubscribeCOV COVNotification Alarm and Event Operations Supported Event Notification AcknowledgeAlarm | Properties Supported Present_Value Present_Value Properties Supported Present_Value, Status | Comments and Limitations Subscription storage is nonvolatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed |
| Data Sharing Operations Supported SubscribeCOV COVNotification Alarm and Event Operations Supported Event Notification AcknowledgeAlarm Binary Output Object, Bina Read Operations | Properties Supported Present_Value Present_Value Properties Supported Present_Value, Status | Comments and Limitations Subscription storage is nonvolatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed |
| Data Sharing Operations Supported SubscribeCOV COVNotification Alarm and Event Operations Supported Event Notification AcknowledgeAlarm Binary Output Object, Bina | Properties Supported Present_Value Present_Value Properties Supported Present_Value, Status ry Value Object | Comments and Limitations Subscription storage is non-volatile Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No Limitations |

| | | 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 |
| | out_or_service | Complex Data Object. Returns |
| | | FALSE when not OOS or when |
| | | using standard Data Arrays |
| | Priority_Array | Returns Priority_Array of Map |
| | Thomey_/aray | 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 |
| | 1 | |
| 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 TRUE, then |
| , | | the write will not cause a |
| | | write-through operation to the |
| | Present_Value | downstream side. If the OOS is |
| | | FALSE or when using standard |
| | | Data Arrays when writes will |
| | | always cause a write-through |
| | | I always cause a write tillouen |

| | | 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 Operations Supported | Properties Supported | Comments and Limitations |
| 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 |
| 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 |
| | 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 |
| Write Operations | Properties Supported | Comments and Limitations |
| Supported | | |
| 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 | Properties Supported | Comments and Limitations |
| Operations Supported | | |
| Event Notification | Present_Value, Status | Confirmed and Unconfirmed |
| AcknowledgeAlarm | | No Limitations |
| Multi-State Output Object, | 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 type |
| | Present_Value | Returns unsigned Integer 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. |

| Neturns FALSE if the Node is online or when using Satandard Data Arrays | | | D. FALCE (C.I. AL. I.) |
|--|---------------------------|----------------------------------|---------------------------------|
| Out_Of_Service 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 Number_of_Stat | | | Returns FALSE if the Node is |
| 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 Number_Of_Sta | | | |
| Number_Of_State | | | · |
| FALSE when not OOS or when using standard Data Arrays | | Out_Of_Service | |
| Number_Of_State | | | |
| 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 | | | |
| Object, returns the number of states defined. When using Standard Data Arrays returns the value of 5 | | | - |
| states defined. When using Standard Data Arrays returns the value of 5 State_Text | | Number_Of_State | |
| Standard Data Arrays returns the value of 5 State_Text 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 return "State_X" where "X" is the value stored in Data_Array and could be 0 to 4 Description Priority_Array Returns Priority_Array of Map Descriptor Religuish_Default Read Property Multiple Same properties as Read Property Write Operations Supported Write Operations Supported Write Property Write Property Multiple Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Properties Supported Comments and Limitations Comments and Unconfirmed Alarm and Event Operations Supported Present_Value, Status Confirmed and Unconfirmed Comments and Limitations | | | |
| 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 | | | 1 |
| State_Text 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 | | | |
| 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 Supported Write Property Write Property Write Property Multiple Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is non- volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | | the value of 5 |
| 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 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 Supported Write Property Write Property Multiple Present_Value Present_Value Present_Value Properties Supported Comments and Limitations Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is nonvolatile COVNotification Properties Supported Comments and Unconfirmed Alarm and Event Operations Supported Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | State_Text | |
| 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 Write Operations Supported Write Property Write Property Write Property Write Property Multiple Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value COMments and Limitations Comments and Limitations Supported Subscription storage is non- volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Comments and Limitations Properties Supported Comments and Limitations Confirmed and Unconfirmed Confirmed and Unconfirmed Confirmed and Unconfirmed No Limitations No Limitations | | | Objects returns the State Text |
| ### Comments and Limitations ### Description Priority_Array | | | Strings defined. When using |
| value stored in Data_Array and could be 0 to 4 Description This property is supported Returns Priority_Array of Map Descriptor Religuish_Default Returns Relinguish_Default Read Property Multiple Same properties as Read Property supported. Multiple objects with multiple properties can be specified Write Operations Supported 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 Data Sharing Operations Supported Data Sharing Operations Supported Data Sharing Operations Supported Present_Value Comments and Limitations Properties Supported Comments and Limitations Supported Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Present_Value, Status Confirmed and Unconfirmed No Limitations No Limitations | | | Standard Data Arrays return |
| Description | | | "State_X" where "X" is the |
| 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 Supported Write Property Write Property Write Property Multiple Present_Value Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value Comments and Limitations Supported Comments and Limitations Supported Comments and Limitations | | | value stored in Data_Array and |
| Priority_Array Returns Priority_Array of Map Descriptor Religuish_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 Write Property Write Property Write Property Multiple Present_Value Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Properties Supported Comments and Limitations Comments and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | | could be 0 to 4 |
| Read Property Multiple Read Property Multiple Same properties as Read Property Read property Multiple is fully supported. Multiple is fully supported. Multiple properties can be specified Write Operations Supported Write Property Write Property Write Property Write Property Multiple Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value Present_Value Comments and Limitations Supported Comments and Limitations Properties Supported Comments and Limitations CovNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | Description | This property is supported |
| Religuish_Default Read Property Multiple Same properties as Read Property Same properties as Read Property Same properties as Read Property Supported. Multiple objects with multiple properties can be specified Write Operations Supported Write Property Write Property Multiple Write Property Multiple Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Comments and Limitations Comments and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | Priority_Array | Returns Priority_Array of Map |
| 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 Write Property Write Property Write Property Multiple Present_Value Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Comments and Limitations Properties Supported Subscription storage is non-volatile COVNotification Present_Value Comments and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | | 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 Write Property Write Property Write Property Multiple Present_Value Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Comments and Limitations Properties Supported Subscription storage is non-volatile COVNotification Present_Value Comments and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | Religuish Default | Returns Relinguish Default |
| Supported. Multiple objects with multiple properties can be specified Write Operations Supported Write Property Write Property Multiple Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Description storage is nonvolatile COVNotification Properties Supported Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed Confirmed and Unconfirmed No Limitations No Limitations | | | · |
| Write Operations Supported Write Property Write Property Multiple Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value Present_Value Present_Value Comments and Limitations 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 Comments and Limitations Supported SubscribeCOV Present_Value Subscription storage is non- volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | Read Property Multiple | Same properties as Read Property | Read property Multiple is fully |
| Despecified Comments and Limitations | | | supported. Multiple objects |
| Despecified Comments and Limitations | | | with multiple properties can |
| Supported Write Property Write Property Multiple Present_Value Present_Value Present_Value Present_Value Present_Value Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Comments and Limitations Comments and Unconfirmed Alarm and Event Operations Supported Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | | | be specified |
| Write Property Write Property Multiple Present_Value Present_Value Present_Value Present_Value Present_Value Present_Value Present_Value Present_Value Data Sharing Operations Supported SubscribeCOV Present_Value Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | Write Operations | Properties Supported | Comments and Limitations |
| Write Property Multiple Present_Value Present_Value Objects and OOS is FALSE or when using standard data arrays, writes will trigger a write through operation to client side Data Sharing Operations Supported SubscribeCOV Present_Value Comments and Limitations Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | Supported | | |
| Write Property Multiple Present_Value Present_Value Objects and OOS is FALSE or when using standard data arrays, writes will trigger a write through operation to client side Data Sharing Operations Supported SubscribeCOV Present_Value Comments and Limitations Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | Write Property | | When using Complex Data |
| Present_Value When using standard data arrays, writes will trigger a write through operation to client side Data Sharing Operations Supported SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations No Limitations No Limitations | | | |
| Data Sharing Operations Supported SubscribeCOV Present_Value Comments and Limitations SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | , , , , , , , , | | |
| Data Sharing Operations Supported SubscribeCOV Present_Value COVNotification Alarm and Event Operations Supported Event Notification Present_Value, Status AcknowledgeAlarm Write through operation to client side Comments and Limitations SubscribeCOV Present_Value Subscription storage is non-volatile Confirmed and Unconfirmed Comments and Limitations Comments and Limitations Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations No Limitations | | Present_Value | _ |
| Data Sharing Operations Supported SubscribeCOV Present_Value COVNotification Present_Value COVNotification Present_Value Comments and Limitations Volatile Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations No Limitations Notification Class Object | | | |
| SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | | |
| SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | | |
| SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | Data Sharing Operations | Properties Supported | Comments and Limitations |
| SubscribeCOV Present_Value Subscription storage is non-volatile COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Operations Supported Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | · . | | |
| COVNotification Present_Value Confirmed and Unconfirmed Alarm and Event Properties Supported Comments and Limitations Event Notification Present_Value, Status Confirmed and Unconfirmed No Limitations Notification Class Object | | Present Value | Subscription storage is non- |
| Alarm and Event Operations Supported Event Notification AcknowledgeAlarm Present_Value Operations Supported Present_Value, Status Confirmed and Unconfirmed Comments and Limitations Confirmed and Unconfirmed No Limitations Notification Class Object | | 1.2501.3.30 | _ |
| Alarm and Event Operations Supported Event Notification AcknowledgeAlarm Properties Supported Comments and Limitations Confirmed and Unconfirmed No Limitations Notification Class Object | COVNotification | Present Value | |
| Operations Supported Confirmed and Unconfirmed Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | | | |
| Operations Supported Confirmed and Unconfirmed Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | Alarm and Event | Properties Supported | Comments and Limitations |
| Event Notification Present_Value, Status Confirmed and Unconfirmed AcknowledgeAlarm No Limitations Notification Class Object | | | and Emilianis |
| AcknowledgeAlarm No Limitations Notification Class Object | | Present Value Status | Confirmed and Unconfirmed |
| Notification Class Object | | Tresent_value, status | |
| | AckilowicugeAldIII | | NO LITHICACIONS |
| | Notification Class Object | | |
| kead Operations Properties Supported Comments and Limitations | • | Duomouting Commont of | Comments and the traits |
| | kead Operations | Properties Supported | Comments and Limitations |

| Supported | | |
|---|--|---------------------------------|
| | 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 |
| | | · |
| Write Operations | Properties Supported | Comments and Limitations |
| Supported | | |
| Write Property | | RecipientList storage is non- |
| Write Property Multiple | Recipient_List | volatile |
| AddList | RecipientList | Used to subscribe to Alarm |
| . 1002-101 | 1100101112100 | and Event Notifications |
| | | |
| Unsupported Functions A | nd Data Types | |
| BACnet Object Type not S | | |
| • | upporteu | |
| Averaging Object | | |
| Calendar Object | | |
| Command Object | | |
| Event Enrollment Object | | |
| File Object | | |
| Group Object | | |
| Life Safety Point Object | | |
| Life Safety Zone Object | | |
| Loop Object | | |
| Notification Class Object uns | upported on Client side only | |
| Program Object | | |
| Schedule Object | | |
| | | |
| BACnet Services not Supp | orted | |
| Alarm and Event Services un | supported on Client side only | |
| File Access Services | | |
| Virtual Terminal Services | | |
| COV and EventNotification se | ervices are not supported for BACnet | |
| MSTP on the ProtoCessor | | |
| For BACnet MSTP , PTP and A | arcnet, COV services are disabled by def | ault and may be enabled by |
| setting the Node_Option pro | perty to COV_Enable in the Nodes secti | on configuration file. |
| - • • | _ | - |

LonWorks Protocol Driver Description

| PG-102-105-AC Mode | Comments | | |
|--|---|---|--|
| Client | Nodes: 1 The PG-102-105-AC can only represent one LonWorks | | |
| Server | Device on the LonWorks Network. A LonWorks device is unique | | |
| | in te | erms of its Neuron Chip Identification Number. | |
| | | | |
| Formal Driver Type | FieldBus | | |
| | Client or Server | | |
| | | | |
| Connection Information: | 1 | | |
| Connection Type: | FTT-10 Free Topology Network Transceiver | | |
| Baud Rates: | 78125 bps (bits per second) | | |
| Hardware Interface: | Built in LonWorks FTT-10 interface | | |
| But Tarrick and the | | | |
| Data Types Supported | Description | | |
| PG-102-105-AC Data Type | Description | | |
| Integers (Long, Short, signed, | SNTVs and UNTVs can be presented, stored and moved into any data type | | |
| unsigned) Float | | | |
| | | | |
| Byte Bit | | | |
| Bit | | | |
| Read Operations Supported | | | |
| PG-102-105-AC as a Client | | PG-102-105-AC as a Server | |
| Polled Network Variables: | | Polled Network Variables: | |
| -Send Network Variable Fetch | | -Respond to Network Variable Fetch | |
| -Send Network Variable Poll | | -Respond to Network Variable Poll | |
| | | | |
| Write (Control) Operations Supported | | | |
| PG-102-105-AC as a Client | | PG-102-105-AC as a Server | |
| Network Variables Updates: | | Network Variables Updates: | |
| -Send Network Variable Updates | | -Accept Network Variable Updates | |
| | | | |
| Unsupported Functions and Data Types | | | |
| Function | Reason | | |
| Programming messages | PG-102-105-AC is a data transfer device, and as such, | | |
| | programming messages are not required | | |
| Direct Memory Read/Writes | The driver uses the Echelon MIP which handles direct memory | | |
| under user control | read and writes | | |
| LonMark File Transfer Protocol The Driver does not support reading and writ Configuration Properties implemented as file | | | |
| | | · | |
| | | therefore does not support the LonMark File Transfer Protocol | |
| that is commonly used to access these remote files. | | monly used to access these remote files. | |