PG-104-105-AC LonWorks to SNMP Protocol Converter

PG-104-105-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-104-105-AC Gateway model supports LonWorks and SNMP 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 SNMP client, the PG-104-105-AC can read data from your SNMP devices and publish it as LonWorks data. Also, it can write commands sent from the LonWorks side to the SNMP devices.

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The PG-104-105-AC can be configured to behave as a server on both SNMP and LonWorks interfaces. This mode is useful when data exchange is required between a SNMP client (for eg. SCADA) and a LonWorks client (for eg. a Building Management System).

PG-104-105-AC can be configured to behave as a client on both SNMP and LonWorks interfaces.

PG-104-105-AC gateways have benefitted system integrators worldwide with its powerful line of gateways. Additionally, PG-104-105-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-104-105-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

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Specifications

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

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LonWorks Protocol Driver Description

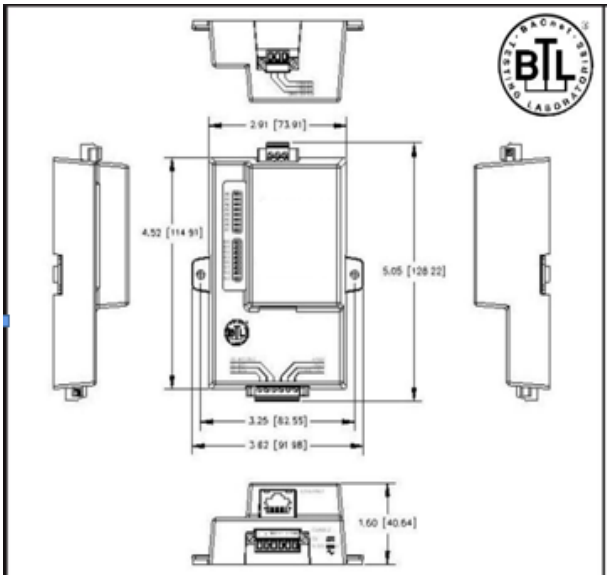
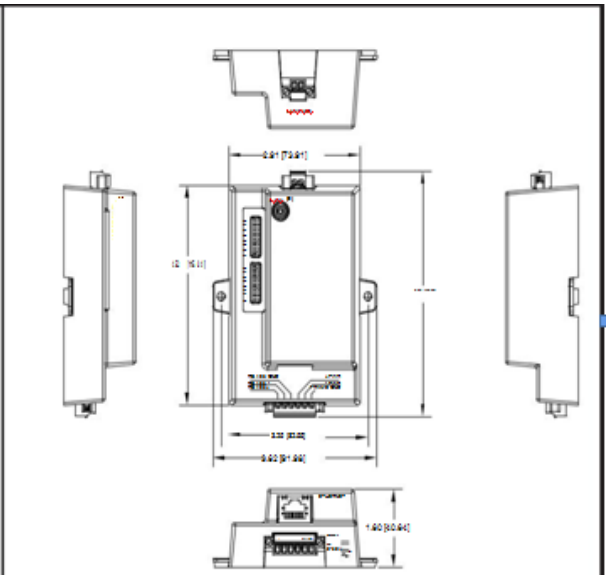
PG-104-105-AC Mode	**Comments**
Client	Nodes: 1 The PG-104-105-AC can only represent one LonWorks Device on the LonWorks Network. A LonWorks device is unique in terms of its Neuron Chip Identification Number.
Server	
Formal Driver Type	FieldBus
	Client or Server
Connection Information:	
Connection Type:	FTT-10 Free Topology Network Transceiver
Baud Rates:	78125 bps (bits per second)
Hardware Interface:	Built in LonWorks FTT-10 interface
Data Types Supported	
PG-104-105-AC Data Type	**Description**
Integers (Long, Short, signed, unsigned)	SNTVs and UNTVs can be presented, stored and moved into any data type
Float	
Byte	
Bit	
Read Operations Supported	
PG-104-105-AC as a Client	**PG-104-105-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-104-105-AC as a Client	**PG-104-105-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-104-105-AC is a data transfer device, and as such, programming messages are not required
Direct Memory Read/Writes under user control	The driver uses the Echelon MIP which handles direct memory read and writes
LonMark File Transfer Protocol	The Driver does not support reading and writing remote Configuration Properties implemented as files. The Driver,

	therefore does not support the LonMark File Transfer Protocol that is commonly used to access these remote files.

SNMP Protocol Driver Description

PG-104-105-AC Mode	**Comments**
Client	Nodes: Limited by hardware memory capacity. Each Node is specified by a unique IP address
Server	Nodes:1 As a Server the SNMP driver can act as a single Node.
Formal Driver Type	Ethernet
	Client (Active or Passive) or
	Server
Connection Information	
Connection Type:	Ethernet
Ethernet Speeds Supported:	10Base-T, 100Base-T[1]
Data Type Supported	
PG-104-105-AC Data Type	**Description**
Integer	
Octet_Stream	Character Strings
Timer_Tricks	Timer values in 1/100ths of a second
Read Operations Supported	
PG-104-105-AC As a Client	**PG-104-105-AC As a Server**
SNMP Get Request	SNMP Get Request
SNMP GetNext Request/SNMP Walk	SNMP GetNext Request/SNMP Walk
Write (Control) Operations Supported	
PG-104-105-AC As a Client	**PG-104-105-AC As a Server**
SNMP Set Request	SNMP Set Request
Unsolicited Operations Supported	
PG-104-105-AC As a Client	**PG-104-105-AC As a Server**
Receive Traps specified by OID Data stored by matching OID or by using OID string values to form lookup string.	Send Traps specified by OID Trap sent based on data change rules, periodic or on source data update.

Unsupported Functions and Data Types	
Data Types	Reason
Only the following SNMP Data Types are Supported: Integer Octet_Stream Timer_Tricks String	Further types will be implemented as required.
MIB-2 variables not specified above.	The PG-104-105-AC primarily being a protocol converter, these variables are not necessary.
Unsupported Devices or Protocol Options	
Protocol Versions	**Details**
SNMPv2, SNMPv3	Not Supported

	
NON AC DIMENSIONS	**AC DIMENSIONS**

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