



SGX LONWORKS[®] SERIAL GATEWAY

The SGX-10 Serial Gateway provides cost-effective, interoperable connectivity between LONWORKS[®] control networks and a variety of serial devices and systems. This product can be utilised to enable devices that are not LONWORKS compatible to become interoperable with LONWORKS networks.

Status LED's display the condition of power and communications to the serial device and the LONWORKS network. The DIN rail mounting of the SGX-10 along with the plug-in terminal connection enables simple installation and a very small footprint in the panel where the product is installed. A unique label allows all terminal numbers to be viewed from the front when installed on DIN rail in a tight space.

Applications

With the ever-increasing demand for interoperability between applications, systems developed by different manufacturers are expected to exchange data to increase efficiency and reduce installation and maintenance costs. The SGX-10 is an enabling platform to achieve this goal. By creating a bespoke driver, LONWORKS interoperability can be achieved for any control or monitoring device, from a single variable speed drive right through to a complete system.

There is a wide range of applications where the SGX-10 can be utilised to interface either a standalone device or a proprietary system to a LONWORKS network. These include:

- Fire systems
- Lighting controls
- HVAC products and systems
- Security systems
- CCTV
- Access Control
- Meters
- Lifts
- PLC's
- Computers
- Printers
- Displays...

...and most other devices with a serial communications port

The Serial Gateway can be programmed to provide standard Echelon SLTA type services or custom software can be developed to address a particular interfacing requirement.

Graphical User Interface
or Web Browser



Features

- Support for:
 - RS-232
 - RS-485 Half Duplex
 - RS-485 Full Duplex
- Serial Baud Rates up to 115Kbps
- Status LED's
- DIN Rail mounted
- 3150 Neuron with 32K Flash EPROM
- Universal voltage power supply
- Small footprint
- RS-485 Anti-Streaming feature avoiding blocking of the network

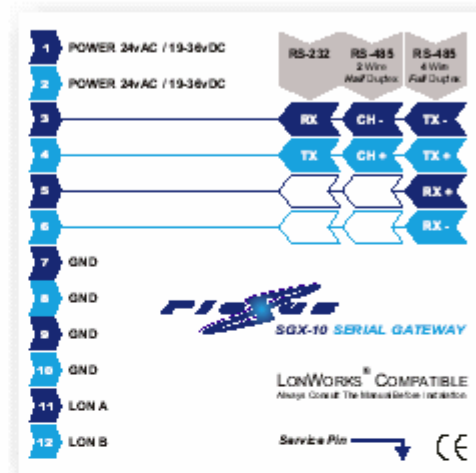
Standard Interfaces

Our library of standard interfaces for the SGX-10 Serial Gateway is ever-increasing; please refer to our web site for the latest list of standard software drivers.

Custom Development

While the SGX-10 Serial Gateway offers a standard, proven hardware platform a Neuron C software driver will need to be written if the device you need to connect to does not communicate via one of our standard software drivers. We have undertaken the development of many such drivers in the past and will be more than happy to provide you with a quotation for a custom software driver.

For implementing your own software drivers for the SGX-10 Serial Gateway a Neuron C library and the source code of a sample software driver is available on request.



SGX-10 Physical Connections

Specification

PISXUS SGX-10 SERIAL GATEWAY

Processor	Neuron 3150 10MHz
Memory	32K Flash
Transceiver Type	FTT-10A with blocking capacitors for LPT-10 compatibility
Service Pin Function	Recessed service switch and LED
Power Supply	24V AC or 18-36 V DC
RAM Battery Back-up	1 year
RS-232/485 Protection	Opto Isolated Transceivers up to 1000V
Status LED's	Power and Serial Communications
Mounting	35mm DIN Rail
Dimensions	H79 x W27 x D95
Terminal Connections	Removable Screw Connectors
Operating Temperature	0° to +50°C
EMI	CE / EN55022 / EN61000-4