

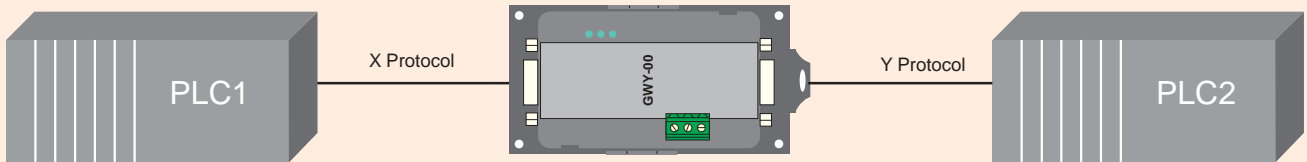
Programmable Industrial Protocol Converter:

- ▶ DIN Rail or Panel Mounted compact Protocol Converter
- ▶ DB9 Serial ports in any combination of RS232 / RS422 / 2 or 4 wire RS485 / CMOS
- ▶ Connects PLC to PLC or PLC to a Modbus Network (as a Master or Slave)
- ▶ Allows data sharing between PLC, Invertors, Controllers and other network devices
- ▶ Common model for connecting different devices. Several PLC and Invertors supported
- ▶ Direct connection to the Programming terminal saves additional hardware
- ▶ Low power consumption of only 2.5 Watts
- ▶ Common Programming software for the entire Gateway family.....FREE!!
- ▶ CE and CSA certification with optional UL

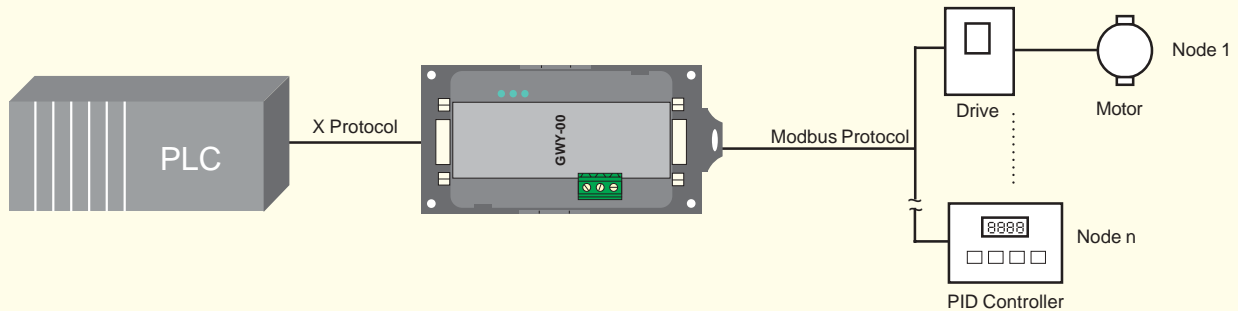
Possible Applications

Gateway connects one field device to another over a serial link irrespective of their protocols. User can define the blocks of registers to be fetched from one device and to be transferred to the other. Our users have used Gateway units in different applications across many industries. The typical configuration includes the following:

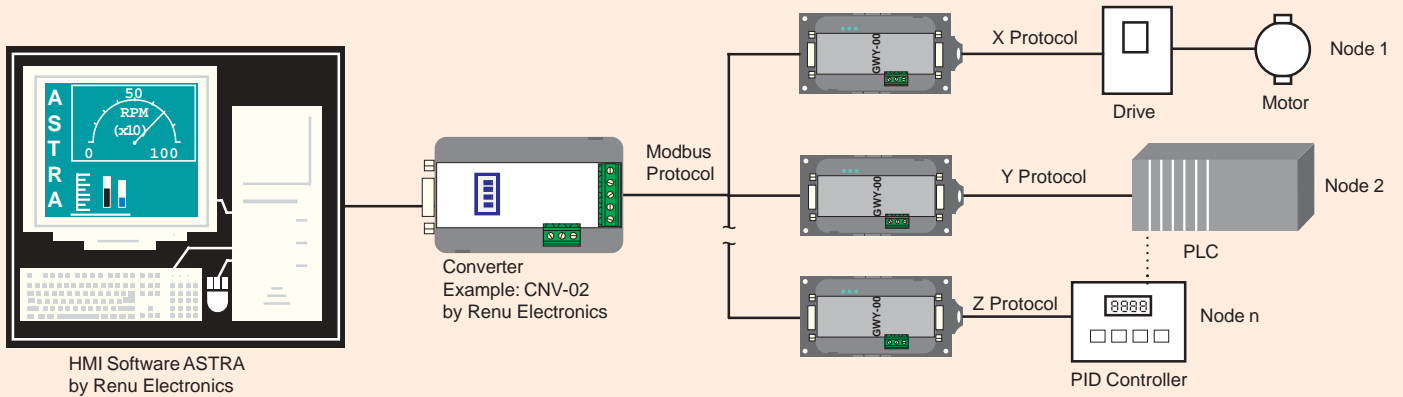
1. PLC to PLC Communication



2. PLC as master in Modbus network

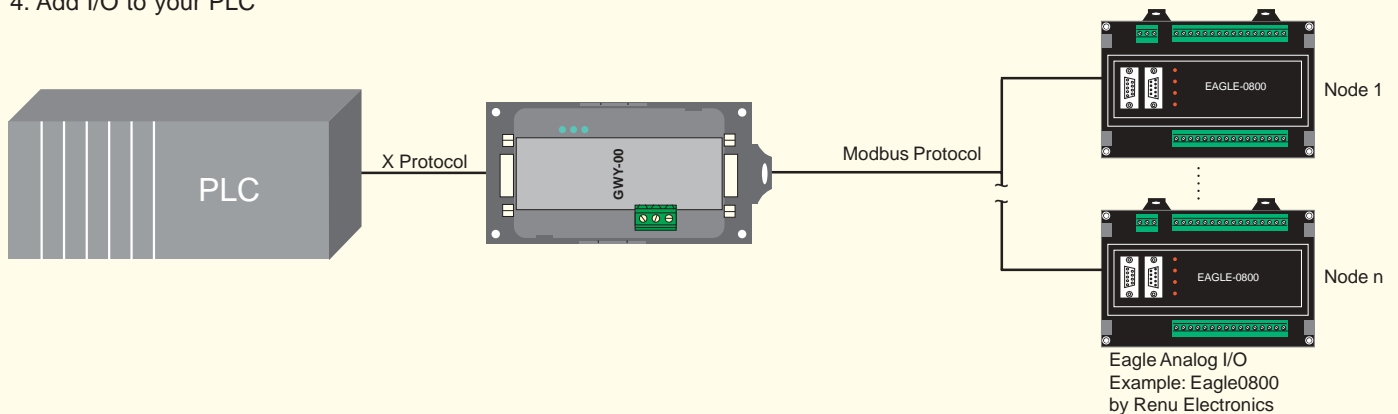


3. PLC / Inverter / Controller as slaves on Modbus network



HMI Software ASTRA by Renu Electronics

4. Add I/O to your PLC



* Images not to scale.

Basic Gateway Operations

Gateway is a Protocol Converter / Data sharer for devices like PLCs, Inverters, Controllers etc. Gateway has two serial ports that connect with two different devices. Gateway communicates with a device to get the information required by the other device.

Our Windows® based Gateway setup software makes it easy to configure the protocol converter. After choosing which protocol to use for each port, you program the Gateway to transfer the data blocks. Using a simple spreadsheet format, you simply program the Gateway to fetch a specified number of registers or bits from one device and transfer them to the other. Powerful software allows you to have all of the information transfers done continuously or have one PLC control which blocks of data should be transferred.

System requirements for Gateway Setup Software are:

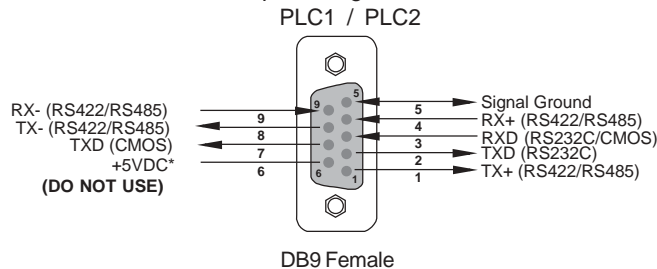
Windows Version	: Microsoft Windows 9x/NT/2000/XP
Processor	: PENTIUM or higher
Hard disk Space	: 5 MB or more
Mouse	: Required
RAM	: 16 MB or more
Display resolution	: 800 X 600 (VGA) or better
Display colors	: 16 bit color

Other Items required for Gateway configuration:

1. Gateway unit
2. Gateway Configuration Cable
3. Gateway Setup Software
4. Devices with communication cables

Communication Ports

The Gateway has two identical communication ports, PLC1 / COM1 and PLC2 / COM2. These ports are compatible to RS232 / RS422 / RS485 and CMOS signal levels. Pin-out of these ports is given as follows:



*Do not use pin no. 6 of either of the Gateway communication ports.

PLC's supported

The Gateway protocol converter currently supports the following PLC's:

• AB DF1 Full Duplex (Micrologix / SLC5/0x / PLC5/30)	• AB DH485 (SLC5 / 0x series)
• Aromat FP0 / FP1 / FP2 / FP Sigma and FPM	• Calisto (Morgan Schaffer)
• Discovery Panel	• GE Fanuc Series 90-30, VersaMax
• IDEC Micro ³ / C, IDEC MicroSMART, IDEC Open Net	• K1339_Slave
• Keyence KV	• LG MasterK 80S-300S
• Messung XMP-8 / NEXGEN 4000 / NEXGEN 5000	• METTLER TOLEDO Weighing Scales
• Mitsubishi FX	• Modbus Master, Modbus Slave
• Moisture Analyzer (Alpha Moisture Systems)	• Omron Host Link
• RHEONIC Mass Flowmeter	• SARTORIOUS Weighing Scales
• Siemens-S7-200 Series	• Siemens S7-300 Series
• Telemecanique TSX07/37/57	• Toshiba T series (Programming Port)
• Toshiba T1, T2, T3, V series (Link Port)	• USS Protocol
• Yaskawa Drives	

Gateway can communicate with all the above PLC's using different communication cables. Gateway units support all the cables supported by Prizm Keypad Operator panels. Please refer Prizm Keypad Operator Panels' brochure for cable details. Some of the above mentioned PLC's connect to PLC1 / COM1 port and some to PLC2 / COM2 port of Gateway. For detailed information on Gateway, visit our Website: www.renuelectronics.com or contact factory.

Gateway can also support following PLC's:

• ABB	• Baldor Drives	• Cegelec Alspa series
• Crouzet	• Delta DVP Series	• Entertron
• Honeywell	• Idec Micro 1 / FA2Jr PLCs	• J-BUS
• Koyo	• Taian TP02 Series	• Telemecanique 17, 47 & 67 Series
• Twido		

New PLC drivers are constantly added. Please contact factory for more information. We welcome an opportunity to develop new, custom drivers and customization of Gateway products.

General specifications

Power	: +24V DC \pm 10%, 100mA max
LED's	: 3 LED's for status indication
Communication Ports	: 2 Communication ports with RS232 / RS422 / RS485 / CMOS
<i>Isolation between communication ports and Power supply, through DC-DC coupler is 1 KV</i>	
PLC1	: Connects to PC for setup download or connects to PLC1 at runtime.
PLC2	: Connects to PLC2.
<i>Isolation between communication ports, through opto-isolation is 1KV for 1 min</i>	
Temperature	: Operating : 0° to 60°C Storage : -20° to 80°C
Humidity	: 10% to 90% (Non condensing)
Mounting	: DIN rail or back panel mounting
Dimensions (DIN rail)	: 105mm(L) X 40mm(D) X 51mm(W)
Weight	: 125 gm approx.
Certifications	: CE, CSA, Optional UL.
Immunity to ESD	: Level 3 as per IEC1000-4-2
Immunity to Transients	: Level 3 as per IEC1000-4-4
Immunity to Radiated RF	: Level 3 as per IEC1000-4-3
Immunity to Conducted RF	: Level 3 as per IEC1000-4-6
Emissions	: EN55011 CISPR A

Models

Series/Model	Technology	Protocol
GWY-00 *	Serial	Various
GWY-100 *	LONWORK	LonTalk
GWY-200 **	CANBus	DeviceNet
GWY-300 **	CANBus	CAN (J1939-71)
GWY-400 *	USB	Various
GWY-500 #	Profibus	Profibus-DP
GWY-600 #	Ethernet	Various

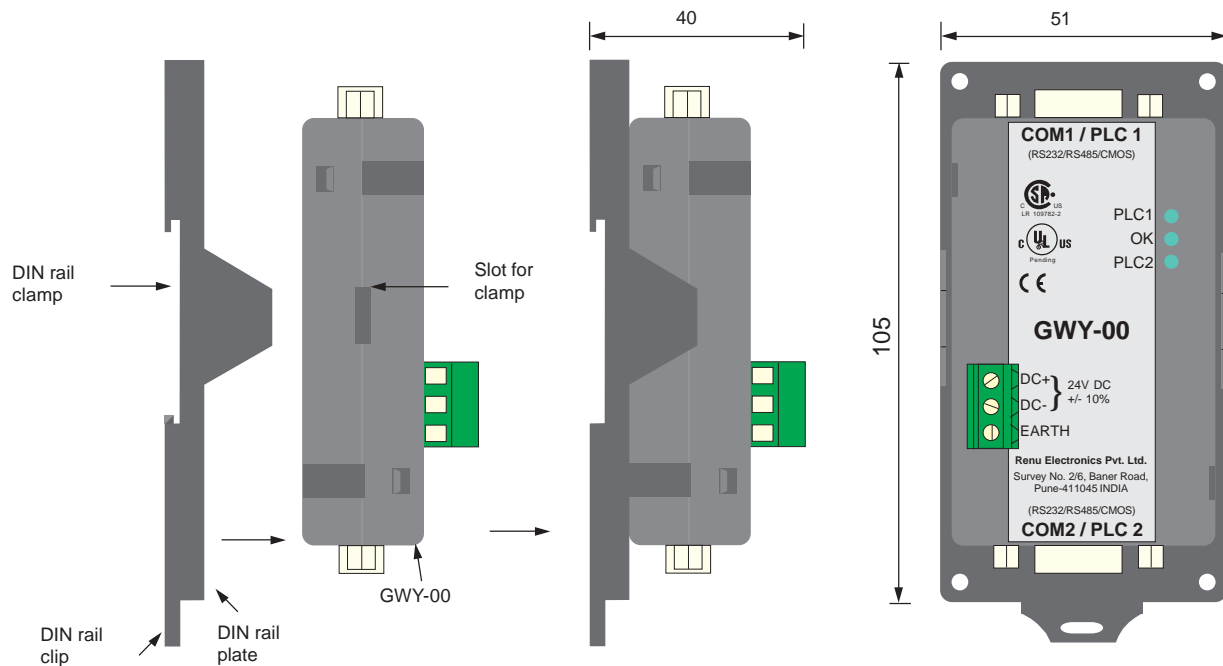
* Released

** Coming soon.

Contact Factory

Dimensions

Gateway units are shipped with a separate DIN rail plate which can be attached to the unit, if desired. User can use the unit with or without the DIN rail plate. Following sketch shows dimensional details of Gateway with the DIN rail plate.



Factory:

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