GATEWAY
PROGRAMMABLE INDUSTRIAL PROTOCOL CONVERTER

RENU ELECTRONICS PVT. LTD.

- DIN Rail or Panel Mounted compact Protocol Converter

- DB9 Serial ports in any combination of RS232 / RS485(2wire / 4wire) / 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 3.3 Watts

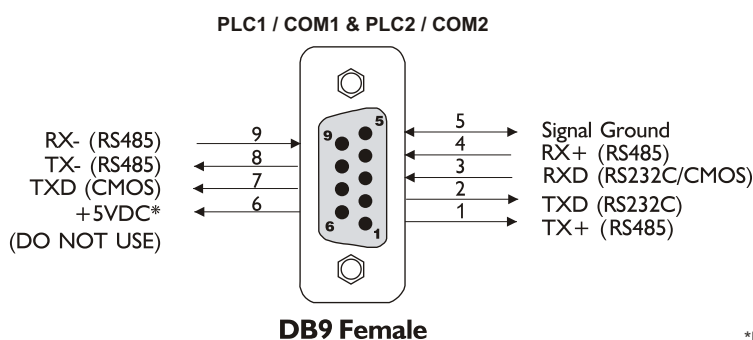- CE, UL certification

- Flexisoft programing software...........Free

SPECIFICATION

Power	+24V DC ± 10%, 140mA max
LED's	3 LED's for status indication
Communication Ports	2 Communication ports with RS232 / RS485 / CMOS (Isolation between communication ports and Power supply)
USB	1 micro-USB for programing
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, UL.

COMMUNICATION PORTS

The GWY-00 has two communication ports, PLC1 / COM1 and PLC2 / COM2. These ports are compatible to RS232 / RS485 and CMOS signal levels. The Pin-outs of these ports are as shown below:

PLC1 / COM1 & PLC2 / COM2

Pin	Signal
9	RX- (RS485)
8	TX- (RS485)
7	TXD (CMOS)
6	+5VDC* (DO NOT USE)
5	Signal Ground
4	RX+ (RS485)
3	RXD (RS232C/CMOS)
2	TXD (RS232C)
1	TX+ (RS485)

DB9 Female

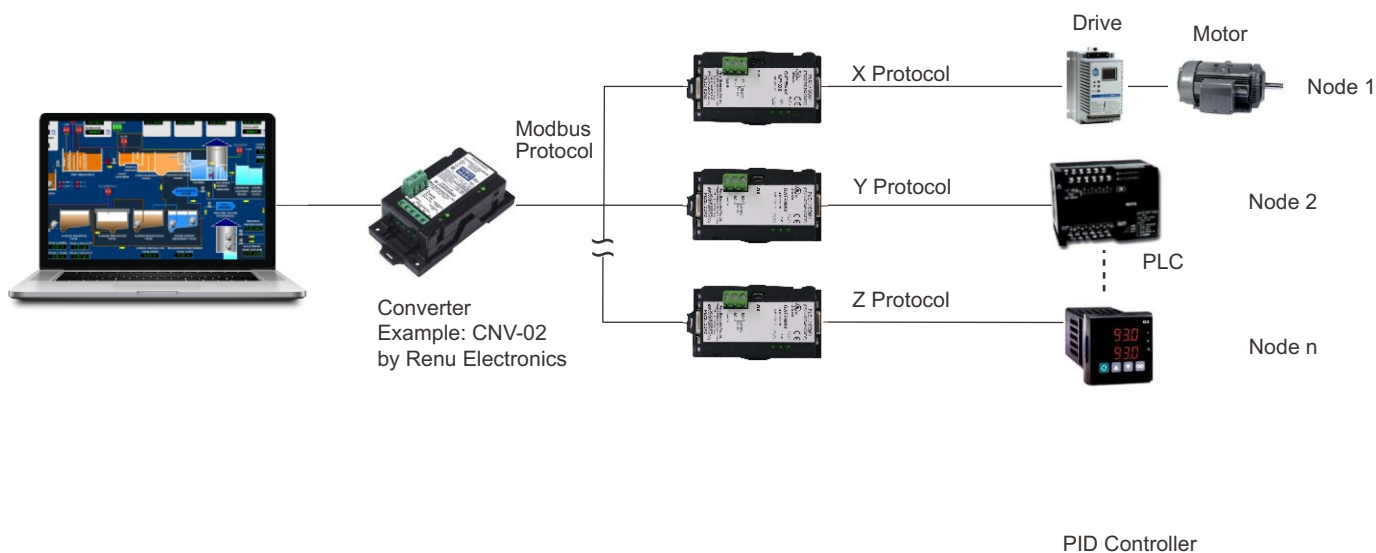*Do not use pin no. 6 of either of the GWY-00 communication ports.

POSSIBLE APPLICATIONS

GWY-00 connects one field device to another over a serial link irrespective of their protocols. The user can define the blocks of registers to be fetched from one device and to be transferred to the other. Our users have used GWY-00 units in different applications across many industries. The typical configuration includes the following:
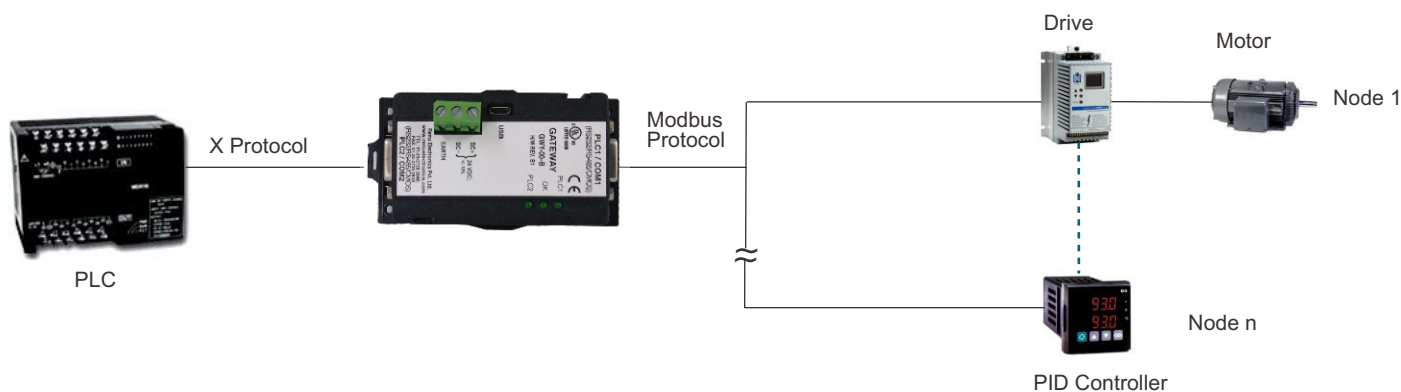
1. PLC TO PLC COMMUNICATION

PLC 1 — X Protocol — GATEWAY — Y Protocol — PLC 2

2. PLC / INVERTER / CONTROLLER AS SLAVES ON MODBUS NETWORK

Modbus Protocol

Converter
Example: CNV-02
by Renu Electronics

X Protocol — Drive — Motor — Node 1

Y Protocol — PLC — Node 2

Z Protocol — Node n

PID Controller

3. PLC AS MASTER IN MODBUS NETWORK

PLC — X Protocol — GATEWAY — Modbus Protocol

Drive — Motor — Node 1
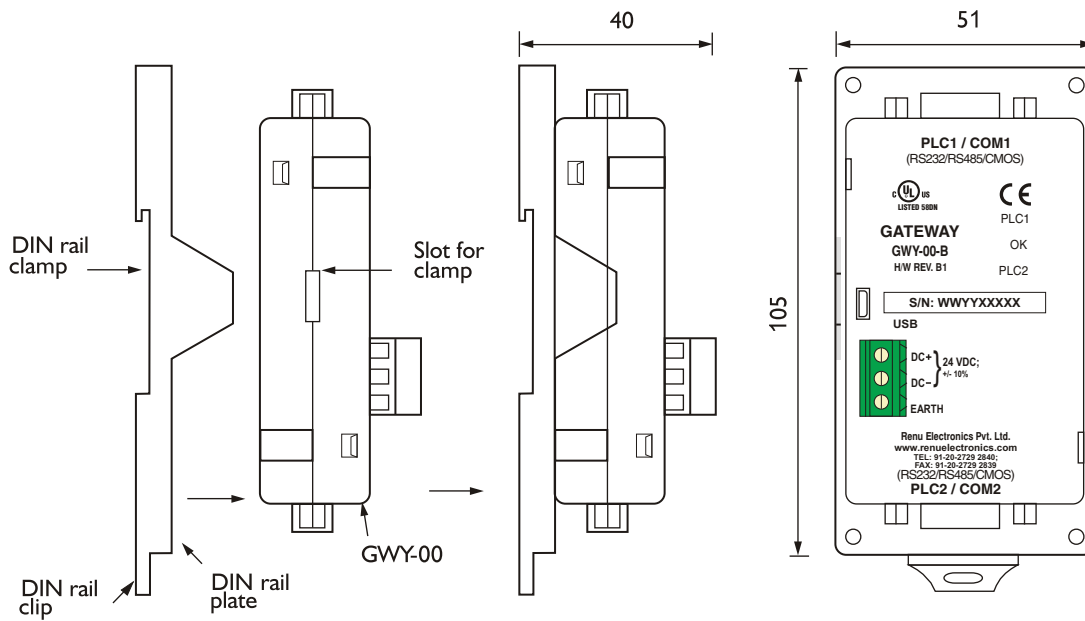
PID Controller — Node n

* Images not to Scale.

PROTOCOLS SUPPORTED

ABB PLCs
Allen Bradley Df1
Panasonic FP Series
Baldor
Danfoss Drive
Delta PLCs
Fatek PLCs
GE SNP
GE SNP-X
Idec PLCs
LG Master K Series PLC
LG Master-K 300S
Mitsubishi FX

Mitsubishi Q series PLCs (Serial)
Modbus ASCII (Unit as Master)
Modbus RTU (Unit as Master)
Modbus RTU (Unit as Slave)
Omron Host Link
Omron Inverter Memobus
Toshiba (Link Port) Series PLCs
Toshiba Inverters PLC
Toshiba T Series
Twido PLCs
Unitelway PLCs
TriPLC
Siemens Micromaster Driver (USS)
FL Smidth Loadcell

DIMENSIONS

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

All dimensions are in mm. Please contact factory for more information.
We welcome an opportunity to develop new, custom drivers and customized units.

(Preliminary Datasheet. Specifications subject to change without prior notice.)

(Specifications subject to change without prior notice. DS-GWY-00:Rev. 6L)