

Programmable Industrial Protocol Converter Features :

- DIN Rail or Panel Mounted compact Protocol Converter
- DB9 Serial port in any combination of RS232 / RS422 / 2 or 4 wire RS485 / CMOS
- Allows PLCs to transfer the data to RFID tags
- Secure and reliable data transfer on RFID end (uses authentication / encryption)
- Can operate till 60-70 mm on RFID side
- Common model that provides RFID connectivity for different devices (PLC, Inverter, Controllers)
- Common Programming software for the entire Gateway family.....FREE!!
- CE, UL certification

Possible Applications :

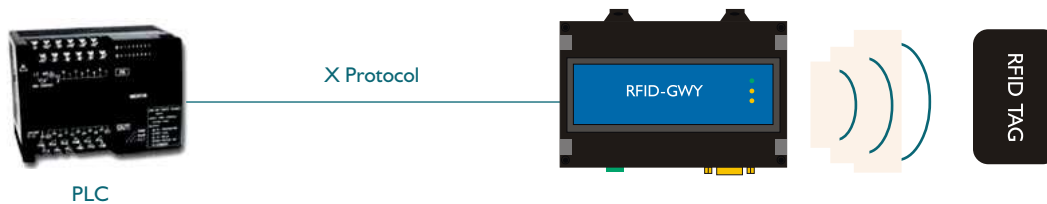
GWY-700 connects one field device to another over a serial link irrespective of their protocols. The user can define the blocks of registers to be fetched from one device and to be transferred to the RFID TAG.



Above application shows RFID Gateway transferring the data to / from objects moving on convayer as per PLC request.

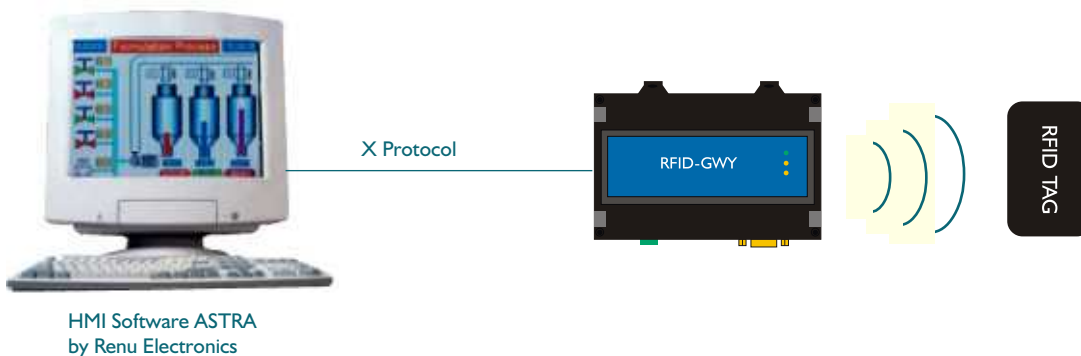
1. Master - Master Mode :

RFID Gateway continuously reads the updated information from TAG and it gives to the PLC.



2. RFID Reader + Middleware :

RFID Gateway can also act as a conventional reader and give information to the PC having middleware softwares. SCADA systems can also be used.



GWY-700 Operations :

GWY-700 reads and writes RFID tags and converts the data so it can be used with a PLC or computer. This Gateway has one serial port for field communications and programming. The port supports RS232, 485, and 422 at baud rates up to 115 k.

It has a built-in antenna and operates with standard RFID tags with a 13.56 MHz frequency. With the internal antenna, the sensing distance is approximately 80 mm.

Our Windows based Gateway setup software makes it easy to configure the RFID protocol converter. Using a simple spreadsheet format, the user decides which registers should be mapped to the RFID data fields. Reading or writing to the tag is secured and reliable using authentication and encryption. In addition, the Gateway offers very high data integrity check while transferring the data to the tag. Powerful software features allow you to have all of the information transfers done continuously or under PLC control registers.

System requirements for Gateway Setup Software are: Programming software is common for the entire Gateway family.

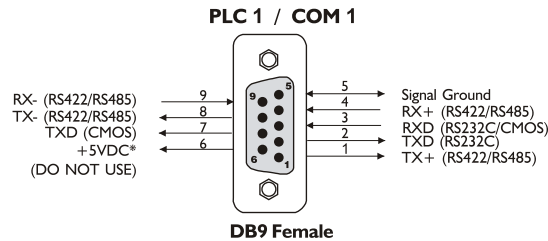
Windows Version : Microsoft Windows 9x/NT/2000/XP
Processor : PENTIUM or higher
Hard disk Space : 5 MB or more
Mouse : Required
RAM : 16 MB or more
Display resolution : 800 X 600 (VGA) or better
Display colors : 16 bit color

Other Accessories required for the GWY-700 configuration and to use in actual application:

1. Gateway Configuration / Connecting Cable.**
2. Gateway Setup Software .
3. Devices with communication cables.

Communication Ports :

The GWY-700 has one communication port, PLC1 / COM1. This port is compatible to RS232 / RS422 / RS485 and CMOS signal levels. The Pin-outs of this port is as shown below:



*Do not use pin no. 6 of PLC1 / COM1.

**Refer our website (www.renuelectronics.com) for your specific Cable requirements

Protocols supported for :

The GWY-700 supports RFID (tags with 13.56 Mhz frequency) protocol.

It currently support following devices on COM1 Port :

- Modbus RTU (Master)
- Modbus RTU (Slave)
- Toshiba T1, T2, T3 (Link Port)
- Toshiba ASD
- AB DF1 Full Duplex (Micrologix /SLC5/0x / PLC5/30)
- Omron Host Link
- IDEC Micro / C, IDEC MicroSmart, IDEC Open Net
- Yaskawa Drives
- Telemecanique 17, 47 & 67 Series
- Xtra Drive PLCs on COM1 side.
- GE Fanuc Series 90-30, VersaMax
- Siemens-S7-200 PPI

It can also support following Devices on request:

- ABB
- AB DH485 (SLC5 / 0x series)
- Aromat FP0 / FP1 / FP2 / FP Sigma and FPM
- Baldor Drives
- Calisto (Morgan Schaffer)
- Cegelec Alspa series
- Crouzet
- Delta DVP Series
- Discovery Panel
- Entertron
- Honeywell
- Idec Micro 1 / FA2Jr PLCs
- J-BUS
- K1339_Slave
- Keyence KV
- Koyo
- LG MasterK 80S-300S
- Messung XMP-8 / NEXGEN 4000 / NEXGEN 5000
- METTLER TOLEDO Weighing Scales
- Mitsubishi FX
- Moisture Analyzer (Alpha Moisture Systems)
- RHEONIC Mass Flowmeter
- SARTORIOUS Weighing Scales
- Taian TP02 Series
- Toshiba T series (Programming Port)
- Twido
- USS Protocol

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.

Specifications :

Power	:	+24V DC \pm 10%, 100mA max
LED's	:	3 LED's for status indication
Communication Port	:	Communication port with RS232 / RS422 / RS485 / CMOS (Isolation between communication port and Power supply, through DC-DC coupler is 1 KV)
PLC1/ COM1	:	Connects to PC for setup download or connects to PLC1 at runtime
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)	:	155mm(L) X 48mm(D) X 102mm(W)
Weight	:	300 gm approx.
Certifications	:	CE and UL
Immunity to ESD	:	as per IEC61000-4-2
Immunity to Fast Transients	:	as per IEC61000-4-4
Immunity to Radiated electromagnetic field	:	as per IEC61000-4-3
Immunity to Conducted disturbances	:	as per IEC61000-4-6
Surge	:	as per IEC61000-4-5
Radiated emission	:	as per EN61000-6-4

Models :

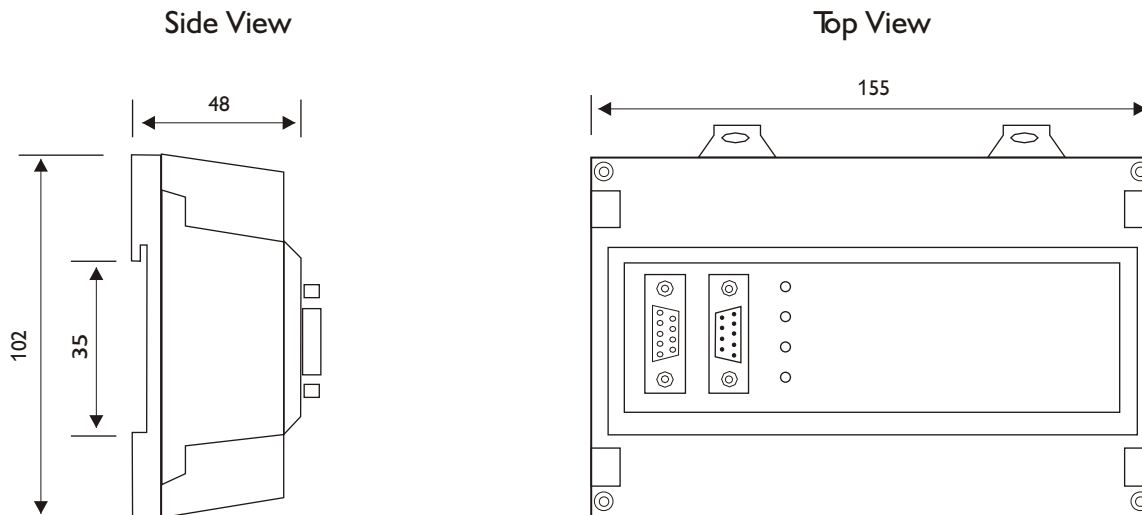
Series/Model	Technology	Protocol
GWY-00 *	Serial	Various
GWY-100 *	LonWorks	LonTalk
GWY-300 *	CANBUS	CAN (J1939/CANopen)
GWY-500 *	Profibus	Profibus-DP
GWY-600 #	Ethernet	Various
GWY-610 *	Ethernet	Various
GWY-620 #	Ethernet	Various
GWY-700 #	RFID	RFID
GWY-800 *	HART	HART

* Released

Contact factory

Dimensions :

GWY-700 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 GWY-700 with the DIN rail plate.



All dimensions are in mm.



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