



FGW-SE41-24V



Factory Gateway (FGW)

RS-232/RS-422 Serial to Ethernet HMI Network Protocol Converter

The Factory Gateway operates as a protocol converter enabling direct communications between host controllers or retrofitting legacy RS-232 or RS-422 serial devices into today's Ethernet networks.

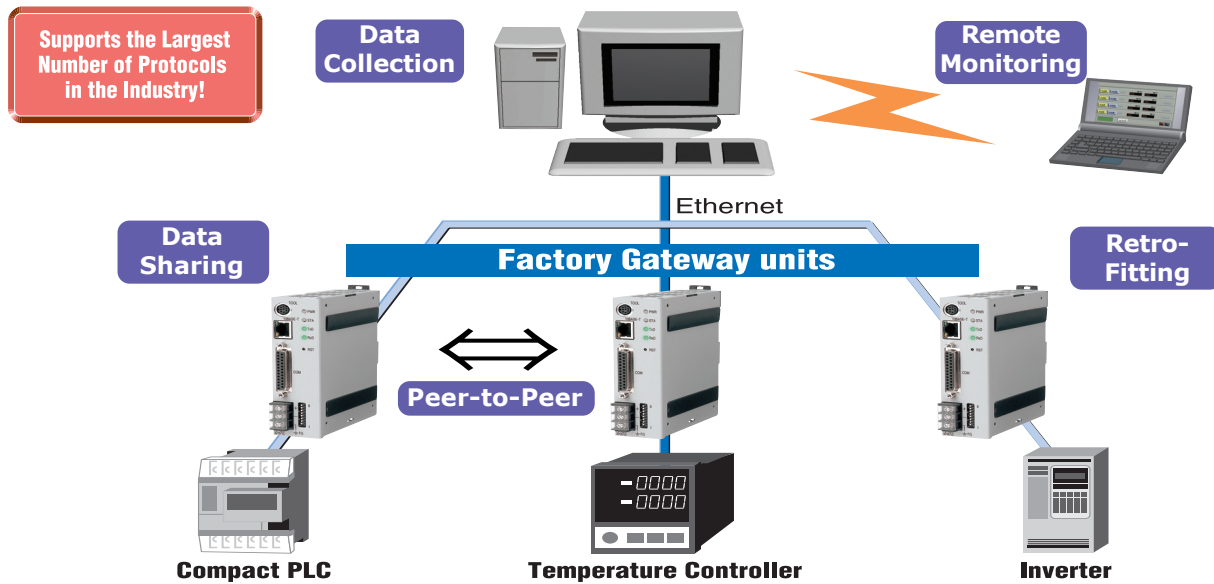
Peer-to-Peer information exchange in a bidirectional format is supported between host PLC controllers using the Factory Gateway. The unit can also be configured to interface temperature, PID, and level controls to an Ethernet based communications network connected to Windows-based SCADA software.

The Factory Gateway is configured using Pro-face's very popular GP-PRO 03 HMI Development software package. A wide variety of serial and Ethernet protocols are available to interface to most industrial-based equipment. Combined with GP Pro Server for Windows allows seamless information exchange and data collection between factory floor I/O and controller devices to the control room.

FEATURES

- Serial to Ethernet Network Converter
- Peer-to-Peer Communications
- Ideal for Factory Retrofits
- RS-232/422 Com Port Configurable
- Stores HMI Application Image in Unit for Remote Monitoring
- 10-BaseT Ethernet
- UL, cUL Certified
- DC Powered
- DIN Rail Mounted

INFORMATION & COMMUNICATION



Data Acquisition Applications

Data Collection

Collect production data and replay the data for system analysis.



For daily reports
For historical data

Data Sharing

Transfer collected production data to common PC applications via ADO, DDE, DLL, OPC, or SQL interfaces.

Remote Monitoring by PC and by Internet

Data Monitoring

Simple and quick remote monitoring using graphic data stored in Factory Gateway units.



GP-Viewer

Multi-point Remote Monitoring via a Web Server

Build a monitoring system using the Internet or an intranet.



GP-Web

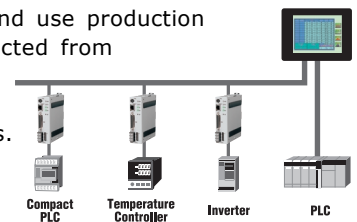
Protocol Conversion

Protocol Conversion

Link PLCs of same or different manufacturers without special programming.

Factory Retro-Fits

Monitor and use production data collected from factory-floor controllers.



FACTORY GATEWAY SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Models	FGW-SE41-24V	
Interfaces	Serial (COM 1) Interface	Asynchronous Transmission Method: RS-232C / RS-422, Data Transmission Speed: 2400bps to 187.5kbps, Data Length: 7 or 8 bits, Parity Stop Bit: 1 or 2 bits, Parity: None, Odd or Even
	Tool Connector	Asynchronous TTL level nonprocedural command interface
	Ethernet Interface	IEEE802.3 (10Base-T)

GENERAL SPECIFICATIONS

Electrical	Input Voltage	DC 24V (DC 19.2V to DC 28.8V)
	Voltage Endurance	AC 500V, 20mA for up to 1 minute (between charging and FG terminals)
Environmental	Power Consumption	10W or less
	Ambient Operating Temp.	0°C to 55°C
	Storage Temperature	-20°C to 60°C
	Storage Humidity	10%RH to 90%RH (non-condensing, wet bulb temperature: 39°C or less)
	Vibration Resistance	IEC61131-2(JIS B 3501)Compliant When vibration is NOT continuous:10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s ² When vibration is continuous:10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s ² ; X, Y, Z directions for 10 times (80min.)
	Shock Resistance	IEC61131-2 (JIS B 3501) Compliant; 147m/s ² ; X, Y, Z directions for 3 times
Structural	Electrostatic Discharge	Immunity: 6kV (IEC 61000-4-2 Level 3)
	Installation	DIN rail mount
	Agency Certifications	EN55011 class A, EN61000-6-2, UL508, CAN/CSA-C22.2 No.1010
	External Dimensions	W37[1.46] x H131[5.16] x D105[4.13] mm[in.] (excluding projections)
	Weight	0.6kg [1.3lb.] or less (main unit only)

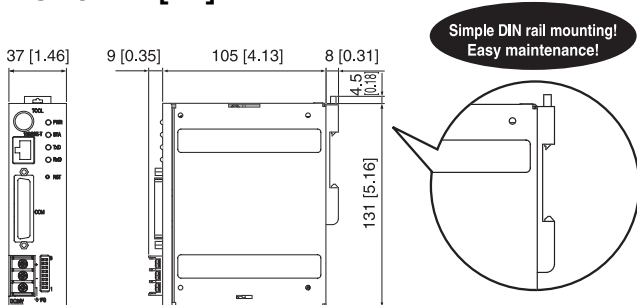
Examples of functions made possible by combining Factory Gateway with optional software.

Function	Description	Required Software						
		Design	Operation	S	G	S	V	W
Data Collection	Protocol Conversion Conversion of serial communication protocols to allow Ethernet for data collection on a host computer. Allows access to data from PLCs, temperature controllers, inverters, and others. More than 200 protocols and 800 models supported.	●	—	●	—	—	—	—
Data Distribution	Data Distribution Enables easy data exchange between connected controllers at user-defined preset timing or triggered event.*1	●	—	—	—	—	—	—
	GP/GLC Communications Allows not only PLC but other industrial equipment to be easily displayed on GP/GLC or PC units.	●	●	●	—	—	—	—
Data Use	Collection Enables easy data collection at preset timing or event. Combination with GP-Viewer also allows graphical display of data.	●	—	●	▲	—	—	—
	Playback Enables easy playback of accumulated data. Desired time periods are reproduced via remote server PC.	●	—	●	—	—	—	—
	Application Support Comprehensive server type functions, including OPC, DDE, DLL, and API, enable data exchange with a wide range of SCADA software	●	—	●	—	—	—	—
Remote Monitoring	Remote Monitoring Simple and quick graphical monitoring of past and present production screen data that is stored in Factory Gateway units.	●	●	●	●	—	—	—
	Enhanced Internet Monitoring Further enhances the remote monitoring function to enable easy monitoring via the Internet.*2	●	●	●	—	●	—	—

*1 Data transfer speed varies depending on the communications speed of Factory Gateway and the connected devices. (1s minimum)
*2 Requires a separate PC. No software necessary in the remote client PC.
*3 Certain feature restrictions apply.

EXTERNAL DIMENSIONS

Unit: mm [in.]



MANUFACTURING DEVICES / PLCs

PLCs:

Fanuc
FATEK
Fuji
GE Fanuc Automation
Hitachi
Izumi/Iddec
Keyence
Koyo/PLC Direct
Matsushita Electric
Matsushita
Electric Works/NAIS
Mitsubishi
Modicon

Omron
ORIM VEXTA
Rockwell (Allen-Bradley)
Sharp
Shinko
Siemens (SIMATIC)
Toshiba
Toshiba Machine
Toyota
Yaskawa
Yokogawa
Invertors:
Fuji
Mitsubishi

Servos:

Matsushita Electric
Temperature Controllers:
Fuji
Toho
OMRON
RKC
Shinko Technos
Yamatake
Yokogawa M&C

ORDERING INFORMATION

ORDER NUMBER	DESCRIPTION
FGW-SE41-24V	Ethernet w/ RS-232/RS-422 Serial Port, 4MB mem, 24VDC, UL/cUL, CE

OPTIONAL ACCESSORIES

GPW-CB02	RS-232 HMI Programming Cable: Connects HMI to PC Port 9 pin D-Sub
GPW-CB03	HMI Programming Cable: Connect HMI to PC USB port

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