



## Product Data Sheet

# OMRON FINS Gateway Communication Server for MS Windows 7 32-bit

The Klinkmann **OMRON FINS Gateway Communication Server (OMRONFGV)** is a Microsoft Windows application program that acts as a communication protocol *Server* and allows other Windows application programs to access the data from OMRON PLCs over the following OMRON FA (Factory Automation) networks: SYSMAC LINK, Controller Link, ETN\_UNIT, Serial Unit, SYSMAC Board and SYSMAC NET. The OMRONFGV Server supports PLC data and memory areas accessible by FINS commands. The OMRON FinsGateway software must be installed on MS Windows 7 32-bit to run the OMRONFGV Server.

Any Microsoft Windows program that is capable of acting as a DDE, FastDDE, SuiteLink or OPC *Client* may use the OMRONFGV Server.

The following OMRONFGV Server version is available:

- OMRONFGV DDE & Suite Link Server (32-bit), can be used on MS Windows 7 32-bit.

## FEATURES

The OMRONFGV Server DDE & Suite Link version supports the Wonderware **Suite Link** communication protocol.

The OMRONFGV Server can access data simultaneously from different OMRON FA networks.

Supports PCs Memory Areas accessible by CV-mode (FINS) commands.

The OMRONFGV Server can access data from FinsGateway **EventMemory**.

Minimizes system message traffic by dynamically calculating and optimizing poll lists to read only, client - requested items/points.

Supports multiple topics, allowing different data update rates for each PLC.

Provides a communication status flag for each topic.

Supports standard DDE among multiple applications.

## SPECIFICATIONS

**Hardware:** For effective using the following is recommended - CPU: 586 133 MHz or faster, 32MB RAM or more. May

require more memory to run other Windows programs simultaneously.

**Software:** Microsoft Windows 7 32-bit. Requires the OMRON FinsGateway Version 3 Runtime Edition to be installed and corresponding FA network's FinsGateway services started.

**Computer Interface:**

**SYSMAC LINK** requires OMRON SYSMAC LINK Support Board (e.g. 3G8F5-SLK21) connected to SYSMAC LINK network.

**Controller Link** requires OMRON Controller Link Support Board (e.g. 3G8F5-CLK21) connected to Controller Link network.

**ETN\_UNIT** requires Ethernet Board (which can be used with Windows NT) connected to Ethernet network.

**Serial Unit** requires COM port (COM1 to COM4).

**SYSMAC Board** requires OMRON SYSMAC Board (C200PC-ISA-01-DRM).

**SYSMAC NET** requires OMRON SYSMAC NET Support Board (e.g. 3G8F5-SNT31) connected to SYSMAC NET LINK network.

**Maximum Connections:** Supports up to 62 nodes including Support Board in SYSMAC LINK, up to 32 nodes including Support Board in Controller Link, up to 126 nodes including Board in ETN\_UNIT and SYSMAC NET and 1 node connected to each COM port in Serial Unit.

**Devices Supported:** Omron C200HX, C200HG, C200HE, C200HS, C200H, C1000H, C2000H, CV500, CVM1-CPU01-E, CV1000, CV2000, CVM1-CPU11-E, CQM1, CS1-Series, CJ1-Series and CPM2x-Series PLCs.

**Accessible Point Types:**

The following lists the supported Point Types:

**C200HX/C200HG/C200HE**

Internal Relay area  
Link Relay area  
Holding Relay area  
Auxiliary Relay area  
Timer/Counter area (Status)  
Present Values for Timers/Counters  
Data Memory area  
Extended Data Memory area

**Note:** All C200HX, C200HG and C200HE item types are Read/Write, except Completion flags for Timers/Counters, which type is Read Only.

**C/CPM2x-Series**

Input/Output register area  
Latching Relay area  
Holding Relay area  
Auxiliary Relay area  
Completion flags for Timers/Counters  
Present Values for Timers/Counters  
Data Memory area

**Note:** All C-Series point types are Read/Write, except Completion flags for Timers/Counters, which type is Read Only.

**CV-Series**

CIO area  
G area  
Auxiliary Relay area  
Timer Completion flags  
Counter Completion flags  
Timer Present Values  
Counter Present Values

Data Memory area  
Transition Area flags  
Step Area Flag status  
Step Area status  
Step timer Present Values  
Expansion area (Current bank)  
Action Area Flag status  
Register Area contents IR  
Register Area contents DR

**Note:** The following CV-Series point types are Read Only: Timer Completion flags, Counter Completion flags, Transition Area flags, Step Area Flag status, Step Area.

All other point types are **Read/Write**.

### **CS1/CJ1-Series**

CIO area  
Work area  
Holding area  
Auxiliary area  
Temporary Relay area  
Data Memory area  
Extended Data Memory area (current bank only)  
Completion flags for Timers/Counters  
Timer/Counter PVs  
Index Registers  
Data Registers

### **CQM1**

IR and SR area  
LR area  
HR area  
AR area  
Timer Completion flags  
Counter Completion flags  
Timer Present Values  
Counter Present Values  
Data Memory area

## ORDERING INFORMATION

### Description / Order Number

OMRON Controller Link FINS Gateway DDE&Suite Link Server Manual & Disk Set / DR 400 10

OMRON Controller Link FINS Gateway OPC&DDE Server Manual & Disk Set / DR 400 11

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