



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON WS02-CPLC1. You'll find the answers to all your questions on the OMRON WS02-CPLC1 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON WS02-CPLC1
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Operating instructions OMRON WS02-CPLC1
Instructions for use OMRON WS02-CPLC1
Instruction manual OMRON WS02-CPLC1

NEW

OMRON

FA Communications Software

SYSMAC Gateway
WS02-SGWC1
CX-Compolet
WS02-CPLC1

SYSMAC Gateway

CX-Compolet

realizing

The advertisement features a blue and white color scheme. It includes a 'NEW' tag, the OMRON logo, and a cluster of blue circles. The central image shows a computer monitor displaying software interfaces for 'SYSMAC Gateway' and 'CX-Compolet', with a keyboard and mouse in front. The 'realizing' logo is at the bottom left.



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Manual abstract:

The need for faster transmission of more and more information between personal computers and PLCs is coupled with the need for frequent changes to specifications, such as address allocations in PLCs, a demand for software standardization to eliminate dependence on specific applications and networks, and a demand for cost reductions. Software Lets You Create Applications with Access to SYSMAC PLCs from Personal Flexibility -Tag Access -Two Types of Access -Access to personal computers via data links. -Communicate using software processing. High Speed Direct Data Link Access -Special Boards, such as Controller Link and SYSMAC LINK Support Boards, are not required. In response to this demand, OMRON has completely renovated its FA Communications

Software under new names. Data links are now possible using Ethernet. Data links can even be accessed via a LAN port on a notebook computer. @@@@It is the successor to SYSMAC Compolet. FINS/CIP Communications Middleware SYSMAC Gateway RS-232C USB EtherNet/IP Two New Features (formerly FinsGateway) Tag Access Application data can be accessed using tag names rather than addresses. No changes are required at the application.

Data Links Data links are possible between personal computers and PLCs on Ethernet networks.1 PLC data can be read and written across EtherNet/IP networks by simply reading and writing values in personal computer memory. Ethernet Controller Link SYSMAC PLC SYSMAC PLC SYSMAC PLC SYSMAC PLC SYSMAC PLC You can easily handle changes to specifications. Same name server as for CJ2 Tag name Data The addresses in PLC assigned to tag names can be changed without creating additional work. CJ2 With EtherNet/IP functionality Upgraded Functions for FA Communications Software Item Operating system EtherNet/IP Network USB PLCs Yes (CJ2, CP1) CJ2 (with EtherNet/IP functionality) FROM A PCI Controller Link Support Board was required to establish data links.

TO - The LAN port at the personal computer is used, so no special board is required. Data links are possible even for a notebook computer. - Software operations are used, improving personal computer and communications performance. EtherNet/IP provides greater capacity and higher speed, and because data link areas in personal computer memory are accessed, data access is faster than having to constantly access EtherNet/IP nodes. SYSMAC Gateway Windows Vista Yes (Tag access and data links enabled.

) CX-Compolet Name server FROM PLC data was accessed using addresses, so if an address was changed in the PLC it also had to be changed in the application. TO PLC data is accessed using tag names, so there is no need to change addresses in the application even if addresses are changed in the PLC. This enables application standardization. Other functions Checking operation on EtherNet/IP Visual Studio.NET 2008 - Array variables are supported. There were strict limitations on the capacity and speed of Controller Link data links. 1 EtherNet/IP is required for data links on Ethernet networks. 2 3 SYSMAC Gateway An OMRON PLC Driver with Virtual PLC Memory Functionality SYSMAC Gateway Communications Driver and Virtual PLC Memory SYSMAC Gateway provides an OMRON PLC communications driver and virtual memory. OMRON's FA Communications Software uses the SYSMAC Gateway communications middleware as a common platform. In addition to FINS communications, operation of SYSMAC Gateway has been verified on EtherNet/IP.

SYSMAC Gateway absorbs the differences in the physical layers of RS-232C, USB, Ethernet, EtherNet/IP, and Controller Link. Virtual PLC event memory is provided to enable a personal computer to participate as a data link node. Changes to memory can be detected in applications at the personal computer. Serial Software Configuration System Configuration Examples SYSMAC Gateway can access the PLCs in all of the following configurations. Application Software SYSMAC Gateway SYSMAC Gateway CX-Compolet USB Commercially available USB cable CJ2/CP1 RS-232C Special Cable CJ2/CJ1/CS1 Message Communications Data Links USB SYSMAC Gateway SYSMAC Gateway RS-232C Applications RS-232C SYSMAC Gateway USB EtherNet/IP Controller Link Data links CJ2 Data links CJ2/ CJ1/ CS1 CJ2/ CJ1/ CS1 CJ2/ CJ1/ CS1 EtherNet/IP CJ2/ CJ1/ CS1 Controller Link CJ2/ CJ1/ CS1 CJ2/ CJ1/ CS1 SYSMAC Gateway EtherNet/IP Controller Link SYSMAC PLC SYSMAC Gateway SYSMAC Gateway CJ2/ CJ1/ CS1 Ethernet EtherNet/IP Controller Link Support Board Controller Link Note: The above configurations are only examples. @@@@ Supports Microsoft Visual Studio.NET 2008. Can be used from Visual Basic.NET and Visual C#.NET.

@@@@@@@@@@@@@@@@Handling PLC address changes is particularly time consuming. For a block of data of the same data type, it is too much work to have to specify the addresses one by one rather than being able to view them as one group and access away. @5/62 Supported communications: Equal to SYSMAC Gateway. @@@@The software must be purchased in advance.) WS02-CPLC1-L5 10 additional licenses (This product provides only additional licenses.

The software must be purchased in advance.) WS02-CPLC1-L10 Software components only. This package doesn't include SYSMAC Gateway as communications drivers. WS02-CPLC2 Supported OS: Microsoft Windows Vista, XP, 2000, and 2003 Server 1 One license is required per computer. 2 Only functions provided by Compolet V2 as ActiveX controls are supported for Visual Basic version 5 or 6.

Correspondence between Main PLC Models and Connected Networks Personal computer PLC CJ2 with EtherNet/IP functionality CJ1 CS1 CP1 C Series RS-232C SYSWAY (Host Link C Mode) SYSWAYCV (Host Link FINS) CompoWay/F (master at personal Peripheral Bus computer) USB FINS Ethernet (LAN) Ethernet (FINS) EtherNet/IP Yes (Specification using tag names is possible.) Controller Link FINS Yes Yes Yes Yes Yes Yes Yes No No Yes No No No No No No Yes 1 A Yes (Peripheral Bus CS/CJ) Yes (Peripheral Bus CS/CJ) Yes (Peripheral Bus CS/CJ) Yes (Peripheral Bus CS/CJ) Yes (Peripheral Bus C) Yes (Peripheral Bus C) Yes (Peripheral Bus CV) Yes2 No No Yes No No No No Yes Yes (Communications Units are not required for CJ1M PLCs with Ethernet functionality.)1 Yes1 Yes1 Yes1 Yes1 (CPIH only) Yes1, 2 Yes1, 2 No No No No No Yes1 Yes1 (CPIH only) C200HX/HG/HE, CQM1H CPM1/CPM2 Yes Yes Yes No No No Yes1 No 2 Specification Yes1 No Yes1 No CVM1/CV CompoWay/F Slaves, such as Temperature Controllers No separate Communications Unit is required. using tag names is not possible. Correspondence between FA Communications Software and Connected Networks Personal Computer Boards FA Communications Software Communications Communications method Message communications FINS communications Data link FINS communications communications SYSMAC Board CS1 Board CS1 Bus Interface Board SYSMAC Gateway CX-Compolet Yes Yes Yes Yes Yes Yes Yes This catalog mainly provides information that is necessary for selecting suitable models, and does not contain precautions for correct use.



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Always read the precautions and other required information provided in product operation manuals before using the product. Note: Do not use this document to operate the Unit. OMRON Corporation Industrial Automation Company Control Devices Division H.Q. PLC Division Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 Japan Tel: (81) 75-344-7084/Fax: (81) 75-344-7149 The application examples provided in this catalog are for reference only.

Check functions and safety of the equipment before use. @@Tel: (1) 847-843-7900/Fax: (1) 847-843-7787 OMRON ASIA PACIFIC PTE. LTD. No. @@@@Wegalaan 67-69-2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388 OMRON Industrial Automation Global: www.ia.omron.com © OMRON Corporation 2009 All Rights Reserved. In the interest of product improvement, specifications are subject to change without notice. Printed in Japan Cat. No. V302-E1-02 0209 (0109).



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