

FC4A-SX5ES1E

Web Server Unit



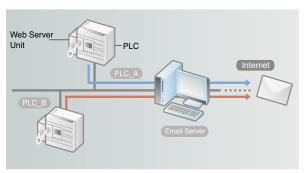
A New Powerful Tool for the MicroSmart PLC!

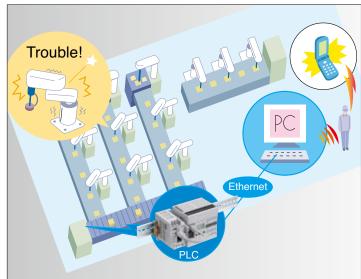


- Email messages can be sent to personal computers and mobile phones to alert a user programming a PLC to receive inputs of abnormal machine conditions.
- Ethernet communication between PLC and PC enables remote maintenance.
- Allows for access to data within the PLC using a standard web browser.
- User communication enables 1:1 communication between PLCs via Ethernet.
- Connect to the MicroSmart and as well as any operator interface with an Ethernet interface and a TCP/IP client function.

Message transmission function

The MicroSmart is programmed to detect abnormal conditions of machines. When an error occurs, an email message is sent to the address of mobile phones and personal computers registered within the web server unit.

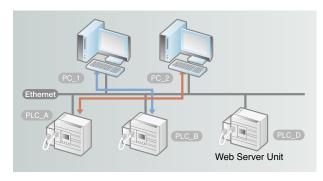


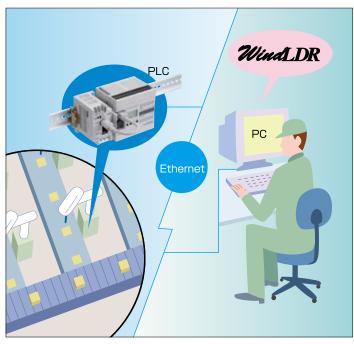


Remote monitoring and control

Operating conditions of machines can be easily monitored and changed from remote places.

WindLDR functions can be used on a MicroSmart installed in remote places, for monitoring of machines, configuration, and to upload and download user programs. MicroSmart does not need special user programs to communicate with a PC. Also, not only WindLDR but standard SCADA software applicable to Ethernet enables graphical displays of monitoring and maintenance status.

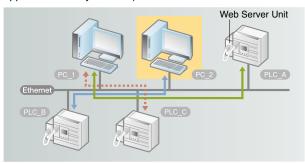


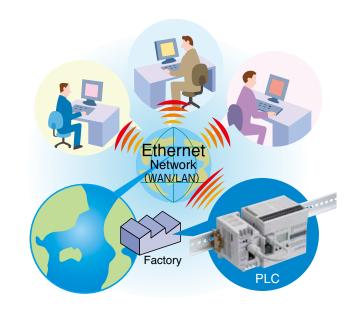


Monitor and control the web server unit from any PC

Web pages stored in the web server unit eliminates the need to add any extra software to configure the MicroSmart.

The web server unit can be monitored and controlled from any PC using standard internet browsers such as Internet Explorer. Also, the MicroSmart can read and write operands (JAVA applets created by the user).

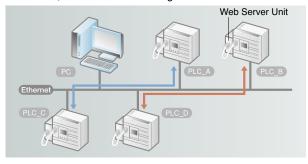


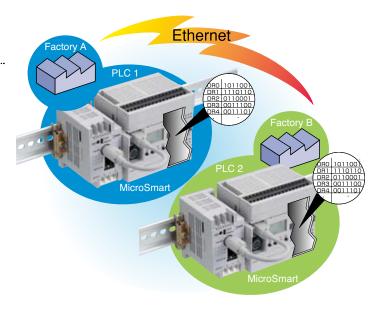


Data can be exchanged between several MicroSmart units using user communication functions

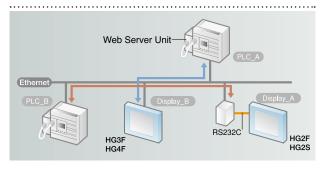
The web server unit connected to a MicroSmart automatically communicates to external devices.

Several MicroSmart units can be monitored with a single PC. Applications can be constructed to display alarm conditions on a PC screen. (The user must create this program.) Also, external devices, such as operator interfaces connected directly to Ethernet, can be controlled using this function.



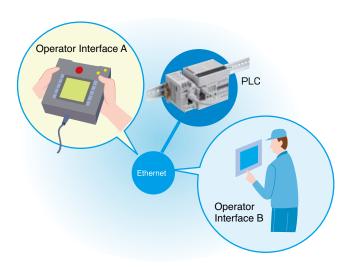


The MicroSmart can be connected with an operator interface



Security protection using passwords

Unauthorized access can be rejected via password protection.



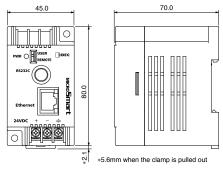
Type Number

Product Name	Type No.	Quantity
Web Server Unit	FC4A-SX5ES1E	1
PLC Communication Cable	FC4A-KC3C	1
35mm DIN Rail (aluminium, 1m)	BAA1000PN10	10
Mounting Clip	BNL6PN10	10
Manual	FC9Y-B919	1

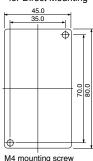
General Specifications

Rated Power Voltage	24V DC	
Allowable Voltage Range	20.4 to 26.4V DC	
Current Draw	70 mA	
Allowable Momentary Power Interruption	10 ms maximum	
Dielectric Strength	500V AC, 1 minute	
Insulation Resistance	10MΩ minimum (500V DC megger)	
Noise Resistance	DC power terminal: 1.0 kV, 50 ns to 1 μ s Ethernet cable: 0.5 kV, 50 ns to 1 μ s (coupling clamp)	
Inrush Current	4A maximum	
Operating Temperature	0 to 55°C	
Storage Temperature	-40 to +70°C (no freezing)	
Relative Humidity	10 to 95% (no condensation)	
Pollution Degree	2 (IEC 60664-1)	
Corrosion Immunity	Free from corrosive gases	
Degree of Protection	IP20 (IEC60529)	
Vibration Resistance	When mounted on a DIN rail: 5 to 9 Hz amplitude 3.5 mm 9 to 150 Hz accelaration 9.8 m/s² (1G) 2 hours in each of 3 axes	
Shock Resistance	147 m/s² (15G), 11 ms duration 3 shocks each in 3 axes	
Weight (approx.)	150g	

Dimensions

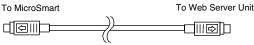


· Mounting Hole Layout for Direct Mounting



PLC Connector

(Type No. FC4A-KC3C, Cable Length: 100 mm) · Connector Pinout · Cable Dimensions



Interface Specifications

Communication	RS232C <=> Ethernet conversion function		
Ethernet Specifications	Electrical characteristics: Transmission speed: Communication protocol: Ethernet protocol:	10BASE-T/100BASE-TX (Not CE compliant)	
Serial I/F Specifications	Electrical characteristics: Transmission speed: Synchronization: Communication protocol: Transmission control:	9600 to 115200 bps Asynchronous	
Connection Method	Ethernet interface: Serial interface:	RJ45 Mini DIN 8-pin connector Cable Type No.: FC4A-KC3C	
Major Functions	Remote maintenance: Uploading, downloading and monitoring using WindLDR via Ethernet Web server: Configure the web server unit using Internet Explorer etc. Reading and writing PLC operands using Java applet. Web file area: 512 Kbyte Compliant browser: Internet Explorer 6.0		
	Ethernet user communication: User communication using Ethernet Message transmission: Registered outgoing message 32 message types 3 characters max. 2 email addresses 64 address characters max.		
Option	Utility CD: Configuration file, PLC operand monitor sample programs, sample program configuration instructions, instruction manual		

Connectable Devices

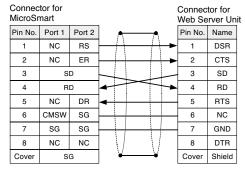
· Programmable Controllers

IDEC FC5A MicroSmart (available soon) IDEC FC4A MicroSmart IDEC FC3A OpenNet Controller

Operator Interface

(RS232C communication with PLC through Ethernet) **ÎDEC HG2F** IDEC HG2S

· Cable Connection Diagram



Specifications and other descriptions in this catalog are subject to change without notice.

• Ethernet is a registered trademark of Xerox Corporation.

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IDEC CORPORATION

IDEC CORPORATION (USA)

1175 Elko Drive, Sunnyvale, CA 94089-2209, USA Tel: +1-408-747-0550 / (800) 262-IDEC (4332) Fax: +1-408-744-9055 / (800) 635-6246 E-mail: opencontact@idec.com

IDEC CANADA LIMITED

Unit 22-151, Brunel Road Mississauga, Ontario, L4Z 1X3, Canada Tel: +1-905-890-8561, Toll Free: (888) 317-4332, Fax: +1-905-890-8562 E-mail: sales@ca.idec.com

IDEC ELECTRONICS LIMITED

Unit 2, Beechwood, Chineham Business Park, Basingstoke, Hampshire RG24 8WA, UK

Tel: +44-1256-321000, Fax: +44-1256-327755

E-mail: sales@uk.idec.com

IDEC ELEKTROTECHNIK GmbH

Wendenstrasse 331, D-20537 Hamburg, Germany Tel: +49-40-25 30 54 10, Fax: +49-40-25 30 54 24 E-mail: service@idec.de

IDEC AUSTRALIA PTY. LTD.

2/3 Macro Court, Rowville, Victoria 3178, Australia Tel: +61-3-9763-3244, Toll Free: 1800-68-4332, Fax: +61-3-9763-3255

E-mail: sales@au.idec.com

7-31, Nishi-Miyahara 1-Chome, Yodogawa-ku, Osaka 532-8550, Japan

Tel: +81-6-6398-2571, Fax: +81-6-6392-9731 E-mail: products@idec.co.jp

IDEC IZUMI ASIA PTE. LTD.

No. 31, Tannery Lane #05-01, Dragon Land Building, Singapore 347788 Tel: +65-6746-1155, Fax: +65-6844-5995

E-mail: info@sg.idec.com

IDEC IZUMI (H.K.) CO., LTD.
Unit 1505-07, DCH Commercial Centre No. 25, Westlands Road,
Quarry Bay, Hong Kong
Tei: +852-2803-8989, Fax: +852-2565-0171

E-mail: info@hk.idec.com

IDEC (SHANGHAI) CORPORATION

Room 608-609, 6F, Gangtai Plaza, No. 700, Yan'an East Road, Shanghai 200030, China

Tel: +86-21-5353-1000, Fax: +86-21-5353-1263

E-mail: idec@cn.idec.com

IDEC TAIWAN CORPORATION 8F, No. 79, Hsin Tai Wu Road, Sec. 1, Hsi-Chih, Taipei County, Taiwan Tel: +886-2-2698-3929, Fax: +886-2-2698-3931