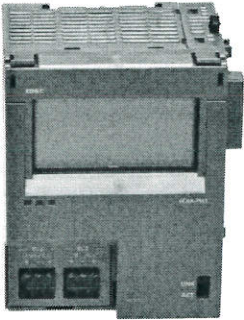


MicroSmart FC6A PLC

HMI and Communication Adapter Specifications



KEY FEATURES

- Add 2nd Ethernet port
- Add additional serial port
- HMI module supports User Web Page
- HMI module supports Web Server Functions
- HMI module supports Email and Text Message notifications

HMI MODULE SPECIFICATIONS

General Specifications

Part Number	FC6A-PH1
Power Consumption Inside Module (without connection cartridge)	100mA (5V) 1.5mA (24V)
Cartridge (option)	One analog cartridge can be added
Weight (approx.)	170g

Display Specifications

Part Number	FC6A-PH1	
Display	TFT Monochrome LCD	
Color/Shade	Monochrome	
Effective Display Area	47.98W × 8.22H mm	
Display Resolution	192W × 64H pixels	
View Angle	Right and left 30°, up 20°, down 40°	
Contrast adjustment	Impossible	
Backlight	LED (green)	
Brightness	45 cd/m ²	
Brightness Adjustment	Impossible	
Backlight Control	ON/OFF	
Backlight Replacement	Impossible	
Display Character Size	1/2 size	8 × 16 pixels (JIS 8-bit code, Western European language ISO 8859-1, Cyrillic ANSI1251)
	Full size	16 × 16 pixels (Japanese JIS first level characters, simplified Chinese)
Quantity of Characters	1/2 size	24 characters × 4 lines
	Full size	12 characters × 4 lines
Character Attribute	Blink, reverse,	

Communication Adapter

Part Number	FC6A-PC1	FC6A-PC3
Standards	EIA RS232C	EIA RS485
Maximum Baud Rate	115,200bps	
Maintenance Communication	Possible	Possible
User Communication	Possible	Possible
Data Link Communication	—	Possible
Half-duplex Communication	—	Possible
Maximum Cable Length	5m	200m
Quantity of Slave Stations	—	31
Isolation between Internal Circuit and Communication Port	Not isolated	
RS485 Cable	Cable	3-core shielded cable with a minimum core wire of 0.3 mm ²
	Conductor Resistance	85 Ω/km maximum
	Shield Resistance	20 Ω/km maximum

Operation Specifications

Part Number	FC6A-PH1
Operation Method	Rubber Switch
Operating Force	2.0N minimum
Mechanical Life	10,000 operations
Multiple Operation	Possible

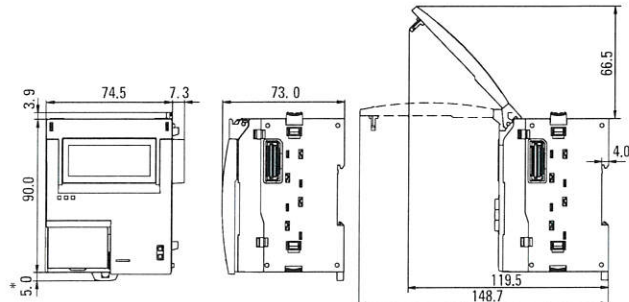
HMI Ethernet Port Specifications

Part Number	FC6A-PH1
Communication	Complies with IEEE802.3
Transmission speed	10BASE-T, 100BASE-TX
Protocol	Datalink layer: IP/ARP Network layer: TCP/UDP, ICMP Application layer: DHCP, DNS, HTTP, SMTP
Connector	RJ45
Cable	CAT 5, STP
Maximum Cable Length	100m
Isolation from Internal Circuit	Pulse transformer isolation
Remote Maintenance	Uploading, downloading and monitoring using WindLDR
	Number of connections: 8
Web Server	Page data of 5MB maximum (total of system web page and user web page) can be stored. (System web page: approx. 450 KB)
	Number of connections: 8 maximum Authentic method: digest authentication
Send E-mail	Sends preregistered e-mails. Up to 255 types of e-mails can be sent. Authentic method: SMTP-Auth (login), SMTP-Auth (CRAM-MD5), SMTPs Encoding method: BASE64
	The maximum size of texts for To or Cc is 512 bytes. ¹ E-mail subject: 255 bytes maximum E-mail body: 4096 bytes maximum Attached CSV file: 4096 bytes maximum (includes spaces, separator characters, and newlines)
E-mail Size	

Note 1: Comma (,) is inserted as a separating character between e-mail addresses.

DIMENSIONS

FC6A-PH1





NRAQ7.E102542

Programmable Controllers Certified for Canada

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Programmable Controllers Certified for Canada

[See General Information for Programmable Controllers Certified for Canada](#)

IDEC CORP
6-64 NISHIMIYAHARA 2-CHOME
YODOGAWA-KU, OSAKA 532-0004 JAPAN

E102542

Investigated to CAN/CSA C22.2 No. 142

2-ch controller modules, open type Model(s) FC5A-F2M2, FC5A-F2MR2

Accessories, battery cards Model(s) FL1E-PM4

Accessories, combined memory/battery cards Model(s) FL1E-PB1

Accessory, memory cards Model(s) FL1E-PG1

Analog output units Model(s) FC4A-K4A1

CC teach pendants Model(s) HG2R-S, HG2S-S, or HG2V-D, followed by S or B, followed by 32 or 62, followed by BH, YH or ZH, followed by A, S or MK, followed by additional numbers and/or letters.

Compact mobile pendants Model(s) HG1H-S, followed by A or B, followed by 11 or 12, followed by B, C or J, followed by EH or H, may be followed by four suffix letters and/or numbers, may be followed by -S1 or -A1 through -S20 or -A20.

HG1T-S, followed by A, B, G or H, followed by 12 or 32, followed by BH, JH, CH, UH, WH, may be followed by -MK, may be followed by four suffix letters and/or numbers, may be followed by L1 or A1 through L20 or A20.

FC3A Series AC Input modules Model(s) FC3A-N08A11, FC3A-N08A13

FC3A Series analog Input 6-channel modules Model(s) FC3A-AD1261

FC3A Series analog output 2-channel modules Model(s) FC3A-DA1221

FC3A Series direct current Input modules Model(s) FC3A-N16B1, FC3A-N16B3, FC3A-N16B6, FC3A-N32B4, FC3A-N32B5, FC3A-N32B6

FC3A Series expansion modules Model(s) FC3A-EA1

FC3A Series network Interface modules Model(s) FC3A-SX5DS1, FC3A-SX5LS1, FC3A-SX5SS1

FC3A Series power supply Input central processing unit modules Model(s) FC3A-CP1K, FC3A-CP1KM, FC3A-CP1S, FC3A-CP1SM, FC3A-CP2K, FC3A-CP2KM, FC3A-CP2S, FC3A-CP2SM

FC3A Series relay output modules Model(s) FC3A -R162, FC3A-R161

FC3A Series remote I/O master modules Model(s) FC3A-SX5SM1

FC3A Series transistor sink output modules Model(s) FC3A-T16K1, FC3A-T16K3, FC3A-T16K6, FC3A-T32K4, FC3A-T32K5, FC3A-T32K6

FC6A Series CPU modules Model(s) FC6A-M16P1, FC6A-M16P1E, FC6A-M16P4E, FC6A-M16R1, FC6A-M16R1E, FC6A-M16R4, FC6A-M16R4E, FC6A-M32P3, FC6A-M32P3E

FC6A Series I/O mixture modules Model(s) FC6A-M24BR1, FC6A-M24BR4

FC6A Series I/O mixture modules Model(s) FC6A-M08BR4, FC6A-TYS4

FC6A Series I/O mixture modules Model(s) FC6A-M08BR1

FC6A Series Input modules Model(s) FC6A-N08A11, FC6A-N08A14, FC6A-N08B1, FC6A-N08B4, FC6A-N16B1, FC6A-N16B3, FC6A-N16B4, FC6A-N32B3

FC6A Series output modules Model(s) FC6A-R081, FC6A-R084, FC6A-R161, FC6A-R164, FC6A-T08K1, FC6A-T08K4, FC6A-T08P1, FC6A-T08P4,

FC6A-T16K1, FC6A-T16K3, FC6A-T16K4, FC6A-T16P1, FC6A-T16P3, FC6A-T16P4, FC6A-T32K3, FC6A-T32P3

FC6A Sleres CPU modules Model(s) FC6A-M16P4

Open type, Programmable controllers, "FC6A Series Analag Modules" Model(s) FC6A-J2C1, -J2C4, -J4A1, -J4A4, -J8A1, -J8A4, -K2A1, -K2A4, -K4A1, -K4A4, -L06A1, -L06A4, -L03CN1, -L03CN4, -J4CN1, -J4CN4, -J8CU1, -J8CU4, -F2MR1, -F2MR4, -F2M1, -F2M4

Open type, Programmable controllers, "FC6A Series CPU Modules" Model(s) FC6A-C16K1C, -C16K1CE, -C24K1C, -C24K1CE, -C40K1C, and -C40K1CE.

FC6A-C16R1A, -C16R1AE, -C16R1CE, -C24R1A, -C24R1AE, -C24R1CE, -C40R1A, -C40R1AE, -C40R1CE, -C40R1DE, -C16P1C, -C16P1CE, -C24P1C, -C24P1CE, -C16P1C-2, -C16P1CE-2, -C40P1C, -C40P1CE, -C40P1DE, -C16K1C, -C16K1CE, -C24K1C, -C24K1CE, -C40K1C, -C40K1CE, -C40K1DE.

Open type, Programmable controllers, "FC6A Series CPU Modules Brick CAN bus types" Model(s) FC6A-C40R1AEJ, -C40R1CEJ, -C40R1DEJ, -C40P1CEJ, -C40P1DEJ, -C40K1CEJ, -C40K1DEJ.

Open type, Programmable controllers, "FC6A Series Option Modules" Model(s) FC6A-PJ2A, -PJ2CP, -PK2AV, -PK2AW, -PC1, -PC2, -PC3, -PC4

Open type, Programmable controllers, "FC6B Series CPU Modules Brick Low-end Types" Model(s) FC6B-C16K1C, -C24K1C, -C40K1C, FC6B-C16P1C, FC6B-C16R1A, FC6B-C16R1C, FC6B-C24P1C, FC6B-C24R1A, FC6B-C24R1C, FC6B-C40P1C, FC6B-C40R1A, FC6B-C40R1C

Open type, Programmable controllers, "HMI Module" Model(s) FC6A-PH1

Open type, Programmable controllers Model(s) FL1F-B12RCA, FL1F-B12RCC, FL1F-B12RCE, FL1F-H12RCC, FL1F-H12RCE, FL1F-J2BR2, FL1F-K2BM2, FL1F-M08B1S, FL1F-M08B1S2, FL1F-M08B2R2, FL1F-RD1

Open type, Programmable controllers Model(s) FL1F-H12RCA, FL1F-J2B2, FL1F-M08C2R2, FL1F-M08D2R2

Programmable controllers, "AS-1 Gateway Series" Model(s) SX5A-GM1N

Programmable controllers Model(s) FL1B-CL1C12, FT1A-C12RA-B, FT1A-C12RA-S, FT1A-C12RA-W, FT1A-C14KA-B, FT1A-C14KA-S, FT1A-C14KA-W, FT1A-C14SA-B, FT1A-C14SA-S, FT1A-C14SA-W, FT1A-M12RA-B, FT1A-M12RA-S, FT1A-M12RA-W, FT1A-M14KA-B, FT1A-M14KA-S, FT1A-M14KA-W, FT1A-M14SA-B, FT1A-M14SA-S, FT1A-M14SA-W

HG1U-S, followed by A or B, followed by 11 or 12, followed by BH, CH, or JH, UH or WH, followed by MK, may be followed by four suffix letters and/or numbers, may be followed by -S1 or A1 through -S20 or -A20.

Programmable controllers, "AS-1 Gateway Series" Model(s) SX5A-GD1N

Programmable controllers, CPU modules, "FT1A Series" Model(s) FT1A-B12RA, FT1A-B12RC, FT1A-B24RA, FT1A-B24RC, FT1A-B40RC, FT1A-B40RKA, FT1A-B40RSA, FT1A-B48KA, FT1A-B48KC, FT1A-B48SA, FT1A-B48SC

Programmable Controllers, CPU modules, "FT1A Series" Model(s) FT1A-C14KA, FT1A-C14SA

Programmable controllers, CPU modules, "FT1A Series" Model(s) FT1A-H12RA, FT1A-H12RC, FT1A-H24RA, FT1A-H24RC, FT1A-H40RC, FT1A-H40RKA, FT1A-H40RSA, FT1A-H48KA, FT1A-H48KC, FT1A-H48SA, FT1A-H48SC

Programmable Controllers, CPU modules, "FT1A Series" Model(s) FT1A-M14KA, FT1A-M14SA

Programmable controllers, CPU units Model(s) FC5A-D12K1E, may be followed by DS0838, FC5A-D12S1E, may be followed by DS0838

Programmable controllers, open type Model(s) FL1A-B10RCA, FL1A-B10RCB, FL1A-B12RCE, FL1A-H10RCA, FL1A-H10RCB, FL1A-H12RCE, FL1A-H12SND, FL1B-B12RCA, FL1B-B12RCC, FL1B-B12RCE, FL1B-H12RCA, FL1B-H12RCC, FL1B-H12RCE, FL1B-H12SND, FL1B-J2B2, FL1B-M08B1S2, FL1B-M08B2R2, FL1B-M08C2R2, FL1B-M08D2R2, FL1D-B12RCA, FL1D-B12RCC, FL1D-B12RCE, FL1D-H12RCA, FL1D-H12RCC, FL1D-H12RCE, FL1D-H12SND, FL1D-K2B2, FL1D-K2BM2, FL1E-B12RCA, FL1E-B12RCC, FL1E-B12RCE, FL1E-H12RCA, FL1E-H12RCC, FL1E-H12RCE, FL1E-H12SND, FL1E-RD1, SX5D-SBM16K, SX5D-SBM16P, SX5D-SBM16S, SX5D-SBN16K, SX5D-SBN16P, SX5D-SBN16S, SX5D-SBR08, SX5D-SBT16K, SX5D-SBT16P, SX5D-SBT16S, SX5L-SBM16K, SX5L-SBM16P, SX5L-SBM16S, SX5L-SBN16K, SX5L-SBN16P, SX5L-SBN16S, SX5L-SBR08, SX5L-SBT16K, SX5L-SBT16P, SX5L-SBT16S, SX5S-SBM16K, SX5S-SBM16P, SX5S-SBM16S, SX5S-SBN16K, SX5S-SBN16P, SX5S-SBN16S, SX5S-SBR08, SX5S-SBT16K, SX5S-SBT16P, SX5S-SBT16S

Programmable display operator Interfaces, 10.4 Inch type, "HG3G Series" Model(s) HG3G-AJT22MF-B, HG3G-AJT22MF-W, HG3G-AJT22TF-B, HG3G-AJT22TF-W

Programmable display operator Interfaces, 12.1 Inch type, "HG4G Series" Model(s) HG4G-CJT22MF-B, HG4G-CJT22TF-B

Programmable display operator Interfaces, 5.7 Inch type, "HG2G Series" Model(s) HG2G-5FT22TF-B, HG2G-5FT22TF-S, HG2G-5FT22TF-W, HG2G-5ST22TF-B, HG2G-5ST22TF-S, HG2G-5ST22TF-W, HG2G-5ST22VF-B, HG2G-5ST22VF-S, HG2G-5ST22VF-W

Programmable display operator Interfaces, 8.4 Inch type, "HG3G Series" Model(s) HG3G-8JT22MF-B, HG3G-8JT22MF-W, HG3G-8JT22TF-B, HG3G-8JT22TF-W

Safety controllers, open type Model(s) FS1A*

* - May be followed by any letter(s) and/or number(s).

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