

# 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

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## 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 <sup>2</sup>	
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 <sup>2</sup>
	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	
Major Functions	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
	E-mail Size	The maximum size of texts for To or Cc is 512 bytes. <sup>1</sup> E-mail subject: 255 bytes maximum E-mail body: 4096 bytes maximum Attached CSV file: 4096 bytes maximum (includes spaces, separator characters, and newlines)

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

## DIMENSIONS

### FC6A-PH1

