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 mm2
	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

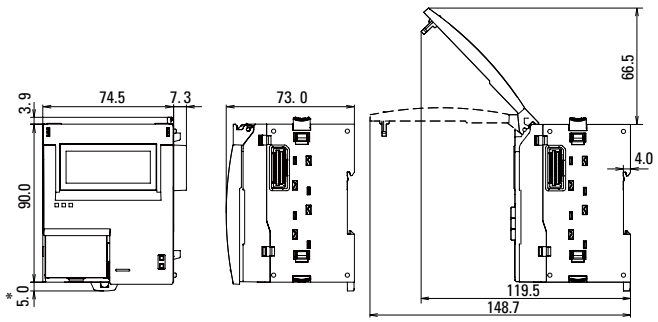
HMI Ethernet Port Specifications

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. [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)

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

DIMENSIONS

FC6A-PH1



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