



FC5A-SIF4 MicroSmart Pentra RS485 Communication Module

Features

- Supports Modbus RTU/ASCII Master and Slave protocol
- Supports IDEC Datalink protocol
- Supports Maintenance and User protocols
- Supports up to 115Kbps baud rate for fast transmission speed
- Configure up to 5 modules (FC5A-SIF4) on one Slim CPU
- Configure up to 3 modules (FC5A-SIF4) on one All-in-One CPU

Specifications

General Specifications

Quantity of Channels	1	
Synchronization	Start-stop synchronism	
Electrical Characteristics	EIA RS485 compliant	
Baud Rate	115,200bps maximum	
Operating Temperature	0 to 55°C (no freezing)	
Operating Humidity	10 to 95% RH (no condensation)	
Cable	Cable Type	Shielded twisted-pair cable with a minimum core wire of 0.3mm ² (AWG22)
	Conductor Resistance	65.7Ω/km maximum (20°C)
Isolation from Internal Circuit	Transformer isolated	
Maximum FC5A-SIF4 Modules Connected*	5 (using FC5A slim CPU module)	
	3 (using FC5A all-in-one 24-I/O CPU module)**	
Internal Current Draw	40mA (5V DC), 40mA (24V DC)	
Weight (approx.)	100g	

*FC5A-SIF4 cannot be connected to FC4A CPU modules.

**FC5A all-in-one 24-I/O CPU module cannot use the FC5A-SIF4 module in combination with the function modules listed in the table below. When using these modules in combination with the FC5A-SIF4 module, use the slim type CPU module.

Module	Models
Analog I/O Module	FC4A-L03A1, FC4A-L03AP1, FC4A-2JA1, FC4A-K1A1, FC4A-J4CN1, FC4A-J8C1, FC4A-J8AT1, FC4A-K2C1
AS-Interface Master Module	FC4A-AS62M

Expandability

	Expansion RS485 Communication Module FC5A-SIF4	RS485 Communication Module Communication Adapter	Max RS485 Ports in Total
Expandability			
FC5A Slim CPU Module	5 modules	1 communication module FC4A-HPC2 FC4A-HPC3	6 ports
FC5A All-in-one CPU Module	3 modules	1 communication adapter FC4A-PC2 FC4A-PC3	4 ports
Communication Distance per Line	1,200m	200m	—
Baud Rate	115,200bps	57,600bps	—



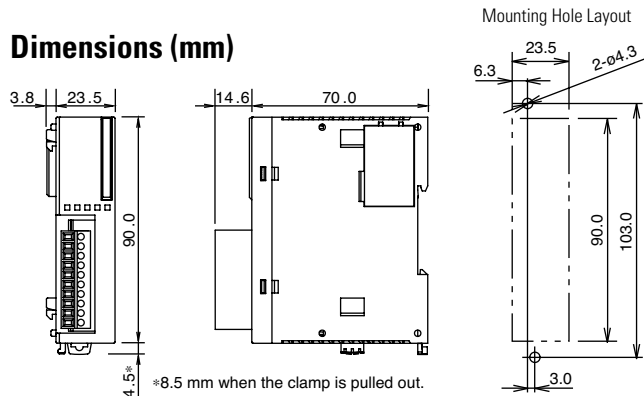
New
RS485
Module

FC5A-SIF4

Communication Specifications

Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps
Maintenance Communication	Available
User Communication	Available
Data Link	Available
Modbus Communication	Modbus ASCII master, Modbus ASCII slave, Modbus RTU master, Modbus RTU slave
Maximum Cable Length	1200m
Quantity of Slaves	31

Dimensions (mm)



FC5A PLC Slim Type CPU

FC5A-SIF4

Expansion RS485 Communication Module

Operating Requirements

- FC5A CPU module with firmware version 220 or higher
- WindLDR ver. 6.20 or higher, available in Automation Organizer Software suite version 1.2
- If you have a previous version of WindLDR it can be upgraded (at no charge) to Automation Organizer by visiting www.IDEC.com/upgrades