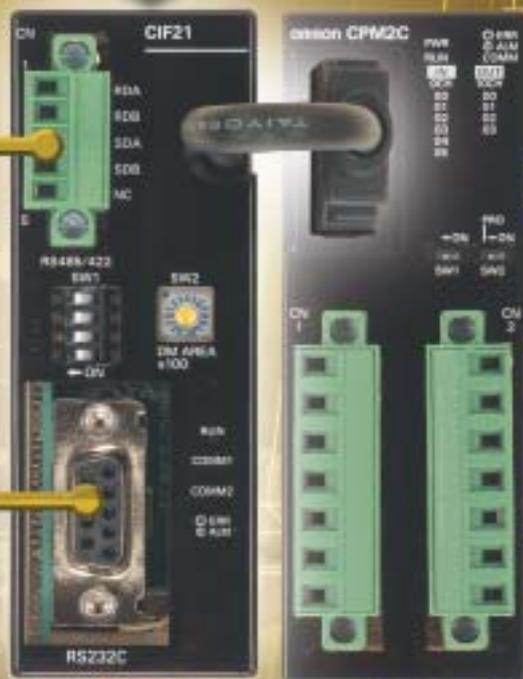


Programmable Controllers
SYSMAC CPM2C
Slim Micro PLC

**Simple Communications
Unit**

Data exchange possible
between CPM2C and
components with just a few
simple initial settings.



PT



G-series Components



E5GN
Digital Temperature Controller



K3GN
Digital Panel Meter



H8GN
Preset Counter/Timer

Connectable Components

In addition to G-series components, other components equipped with CompoWay/F and SYSWAY communications functions can be connected to the Simple Communications Unit. These are shown in the following table.

Product name	Series name	Model number	SYSWAY	Segment information	CompoWay/F	Comments
Temperature Controllers	Temperature Controllers	E5GN	○	1	○	—
		E5CN	○	1	○	—
		E5EN	○	1	○	—
		E5AN	○	1	○	—
	Modular Temperature Controller	E5ZN	×	—	○	—
	Digital Controllers (standard models)	E5CK	○	1	×	—
		E5EK	○	1	×	—
		E5AK	○	1	×	—
	Digital Controllers (valve control)	E5EK	○	1	×	Valve system communications are not supported.
		E5AK	○	1	×	
	Digital Controllers (programmable)	E5CK-T	×	—	×	—
		E5EK-T	×	—	×	—
		E5AK-T	×	—	×	—
	Digital Controllers (programmable, valve control)	E5EK-T	×	—	×	—
		E5AK-T	×	—	×	—
Temperature Controllers	E5EJ	○	1	×	—	
	E5AJ	○	1	×	—	
Fuzzy Temperature Controller	E5AF	○	1	×	—	
Timers	Electronic Timer/Counter	H8GN	×	—	○	—
Digital Panel Meters	Digital Panel Meter	K3GN	×	—	○	—
	Process Meter	K3NX	○	2	△	Some commands cannot be used with some models (options). Only the CompoWay/F variable area can be read.
	Weighing Meter	K3NV	○	2	△	
	Frequency/Rate Meter	K3NR	○	2	△	
	Period meter	K3NP	○	2	△	
	Up/Down Counting Meter	K3NC	○	2	△	
	Temperature Meter	K3NH	○	2	△	
Intelligent Signal Processor	K3TS	○	2	×	SYSWAY communications only (See note.)	

: G-series Components; ○ : Connection possible; △ : Connection possible for limited functions; × : Communications impossible or not supported. A mixture of CompoWay/F, SYSWAY (segment information 1), and SYSWAY (segment information 2) is also possible.
 Note: When a K3TS is connected, connect the other components via SYSWAY as well.

Component Parameters for which Communications is Possible

The communications protocol (either CompoWay/F or SYSWAY) can be set in the CPM2C's DM area. The data that can be read/written is different for the two protocols.

● CompoWay/F

Reading and writing is possible for all component data (except for some Digital Panel Meters). The amount of data that can be read/written in one operation per component is limited to 12 data items for reading and 12 data items for writing. Reading and writing is enabled by setting the address for each parameter in DM.

● SYSWAY

Reading and writing is possible for the data shown in the following table:

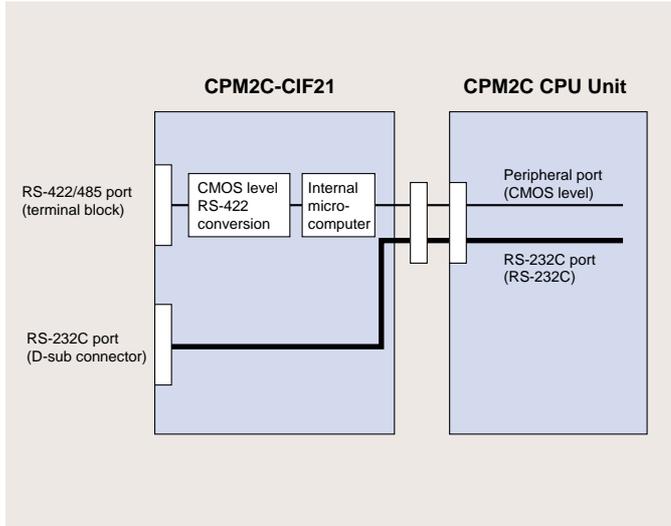
Segment information	Read/Write	Data	Command group				
			1	2	3	4	5
1. Temperature Controller	Read	Present temperature	○	○	○	○	○
		Status	○	○	○	○	○
		Target temperature	○	○	○	○	○
		Alarm 1 SV			○	○	○
		Alarm 2 SV			○	○	○
		Proportional band				○	○
		Reset time				○	○
		Derivative time				○	○
		Heater current					○
	Heater current status					○	
	Write	Target temperature	○	○	○	○	○
		Operation command		○	○	○	○
		Alarm 1 SV			○	○	○
		Alarm 2 SV			○	○	○
		Proportional band				○	○
Reset time					○	○	
2. Digital Panel Meter	Read	Derivative time				○	○
		Heater burnout detection value					○
		Display value	○	○	○	○	○
		Display value status	○	○	○	○	○
		Peak hold		○	○	○	○
		Peak hold status		○	○	○	○
		Bottom hold		○	○		○
		Bottom hold status		○	○		○
		Comparison value (HH)				○	○
		Comparison value (H)				○	○
	Comparison value (L)				○	○	
	Comparison value (LL)				○	○	
	Write	Operation command			○		○
		Comparison value (HH)				○	○
		Comparison value (H)				○	○
Comparison value (L)					○	○	
Comparison value (LL)					○	○	

The command groups for which reading or writing is performed are determined by settings in the DM area.

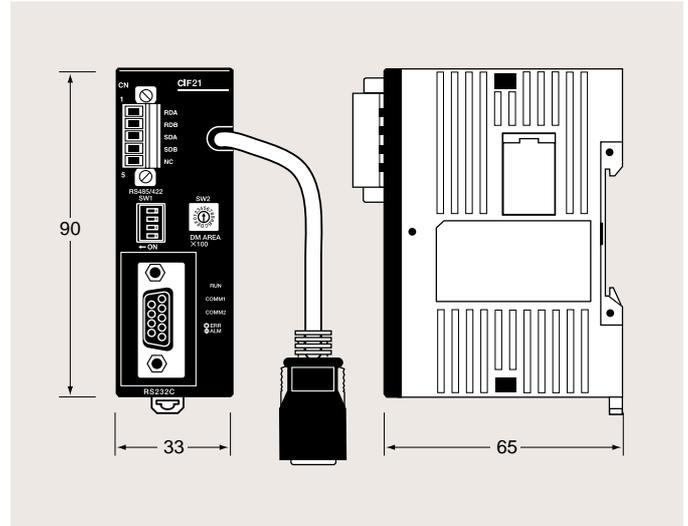
CPM2C-CIF21 Specifications

Item		Specification
Applicable PLC		CPM2C
RS-485/422 (upper port)	Number of components connectable	32
	Component connection port	Connect to components via RS-485/422 (terminal block). Connect to CPM2C via peripheral port. (Refer to Outline of Internal Configuration below.)
	Baud rate for connection to components	9.6 kbps/19.2 kbps/38.4 kbps/57.6 kbps
	Baud rate for connection to CPU Unit	9.6 kbps/19.2 kbps
RS-232C (lower port)	Signal conversion	Output unconverted to the CPU Unit's RS-232C interface
	Communications functions	Host Link, no-protocol, 1:1 Link, or NT Link (1:1)
Power supply		Provided from the CPU Unit
Current consumption		1 W
Weight		150 g max.

Outline of Internal Configuration



Dimensions (mm)



Available Models

Unit name	Model number	Applicable standards
Simple Communications Unit	CPM2C-CIF21	U, C, CE

Note: Do not use this document to operate the Unit.

OMRON Corporation
FA Systems Division H.O.
 66 Matsumoto
 Mishima-city, Shizuoka 411-8511
 Japan
 Tel: (81)559-77-9181
 Fax: (81)559-77-9045

Regional Headquarters
OMRON EUROPE B.V.
 Wegalaan 67-69, NL-2132 JD Hoofddorp
 The Netherlands
 Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS, INC.
 1 East Commerce Drive, Schaumburg, IL 60173
 U.S.A.
 Tel: (1)847-843-7900/Fax: (1)847-843-8568

OMRON ASIA PACIFIC PTE. LTD.
 83 Clemenceau Avenue,
 #11-01, UE Square,
 Singapore 239920
 Tel: (65)835-3011/Fax: (65)835-2711

Authorized Distributor:

Note: Specifications subject to change without notice.

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