SPECIAL I/O MODULES

HIGH-DENSITY INPUT MODULE SPECIFICATIONS (GROUP-2)

The High-density Input Modules let you pack more input points into a single I/O slot for greater space savings. These modules do not use standard I/O points. Thus, they increase the overall I/O capacity. They provide 32 or 64 discrete input points. The modules can be used with Omron's Terminal Blocks, reducing wiring between control panels, as well as within control panels.

C200H-ID216
(32 DC input pts.)
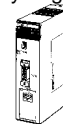
C200H-ID217
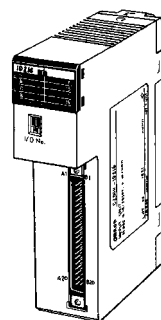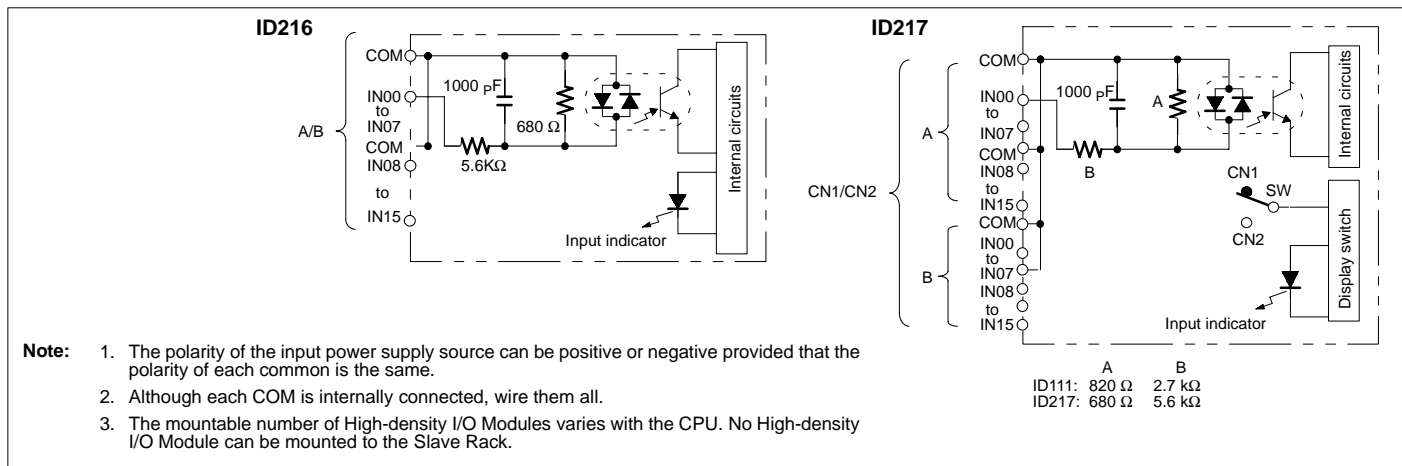**(64 DC input pts.)**

Features

- Easy cable connection to Omron's XW2B-☐ Terminal Blocks using XW2Z-☐ Connecting Cable. Refer to the *Standard Parts* section for detailed ordering information.

- Up to ten 64-point modules or 32-point modules per PLC

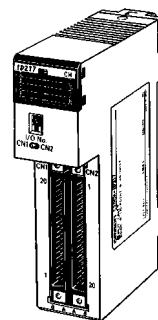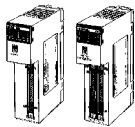**Note:** The ambient temperature affects the number of points that can be ON simultaneously.

Specifications

PART NUMBER	C200H-ID216	C200H-ID217
Number of inputs	32 points	64 points
Rated input voltage	24 VDC $^{+10\%}/_{-15\%}$	
Input current	4.1 mA typical at 24 VDC	
Input impedance	5.6 kΩ	
ON voltage	14.4 VDC min.	
OFF voltage	5.0 VDC max.	
Input ON delay	1.0 ms max.	
Input OFF delay	1.0 ms max.	
Isolation	Photocoupler	
Input indicator	LED	
External connections	Connector	
Number of circuits (see note)	32 points with one common	64 points with two commons
Internal power consumption	100 mA max. at 5 VDC	120 mA max. at 5 VDC
Weight	180 g max.	250 g max.
Manual	W302	

Circuit Configuration

ID216

ID217

A B
ID111: 820 Ω 2.7 kΩ
ID217: 680 Ω 5.6 kΩ

Note:
1. The polarity of the input power supply source can be positive or negative provided that the polarity of each common is the same.
2. Although each COM is internally connected, wire them all.
3. The mountable number of High-density I/O Modules varies with the CPU. No High-density I/O Module can be mounted to the Slave Rack.

SPECIAL I/O MODULES (INCLUDING GROUP 2 I/O)

Group-2 I/O Modules

ITEM		DESCRIPTION		PART NUMBER	STANDARDS
DC Input Modules	32 pts	24 VDC		**C200H-ID216**	U, C, N, L, CE
	64 pts			**C200H-ID217**	
Transistor Output Modules	32 pts	16 mA at 4.5 V to 100 mA at 26.4 V		**C200H-OD218**	U, C, N, L
	64 pts			**C200H-OD219**	
B7A Interface Modules (GROUP 2 I/O MODULES)	32 input pts	Connects to B7A Link Terminals. Standard or high-speed transmission delay.		**C200H-B7A12**	---
	32 output pts			**C200H-B7A02**	
	16 input and 16 output points			**C200H-B7A21**	
	32 input and 32 output points			**C200H-B7A22**	

Special I/O Modules

ITEM		DESCRIPTION		PART NUMBER	STANDARDS
High-density I/O Modules (see note 1)	DC Input Modules	32 pts	5 VDC (TTL inputs); w/high-speed input	**C200H-ID501**	U, C, N, L, CE
		32 pts	24 VDC; w/high-speed input	**C200H-ID215**	
	Transistor Output Modules	32 pts	0.1 A, 24 VDC (useable as 128-point dynamic output unit)	**C200H-OD215**	
		32 pts	35 mA, 5 VDC (TTL outputs) (useable as 128-point dynamic output unit)	**C200H-OD501**	
	DC Input/Transistor Output Modules	16 input and 16 output pts	24-VDC inputs; w/high-speed input; 0.1-A, 24-VDC outputs (useable as 128-point dynamic input unit)	**C200H-MD215**	
		16 input and 16 output pts	5-VDC TTL inputs; w/high speed input; 35-mA, 5-VDC TTL outputs (useable as 128-point dynamic input unit)	**C200H-MD501**	
		16 input and 16 output pts	12-VDC TTL inputs; w/high speed input; 12-VDC TTL outputs (useable as 128-point dynamic input unit)	**C200H-MD115**	N, L
Analog I/O Modules	Analog Input Modules	4 to 20 mA, 1 to 5/0 to 10 V (switchable); 4 inputs; 12 bits		**C200H-AD001**	U, C, N, L
		4 to 20 mA, 1 to 5/0 to 10 V/−10 to 10V (switchable); 8 inputs; 12 bits or BCD		**C200H-AD002**	
	Analog Output Modules	4 to 20 mA, 1 to 5/0 to 10 V (switchable); 2 outputs		**C200H-DA001**	
		4 to 20 mA, −10 to 10 V; 4 outputs		**C200H−DA002**	---
Fuzzy Logic Module		Programmed using the Fuzzy Support Software.		**C200H-FZ001**	N
	Fuzzy Support Software	Available on either 3.5" or 5.25" floppy disks.		**C500-SU981-E**	---
Temperature Sensor Module	Thermocouple	K(CA) or J(IC), switchable; 4 inputs		**C200H-TS001**	U, C
		K(CA) or L(Fe-CuNi) DIN standards; 4 inputs		**C200H-TS002**	
	Pt resistance thermometer	Pt 100 Ω; 4 inputs		**C200H-TS101**	
		Pt 100 Ω; 4 inputs; DIN and 1989 JIS standards		**C200H-TS102**	