DeviceNet Master Unit

C200HW-DRM21-V1

Master Unit for CS1, C200HX, C200HG, C200HE, and C200HS

- The control of a maximum of 4,800 points (300 words) per Master is possible over remote I/O with the CS1, C200HX, C200HG, or C200HE.
- The Configurator is available for easy remote I/O allocation.
- The Configurator makes it possible for a single Programmable Controller to connect to up to 16 Master Units.
- Incorporating a remote I/O and message communications functions.



Ordering Information

Compatible PLCs					
	Configurator not in use	Configurator in use		Model	
		No message communications	Message communications		
CS1H/G C200HX/HG/HE	1,600 points (800 inputs/ 800 outputs) (100 words)	Two-block inputs and two-block outputs (with a maximum of 1,600 points or 100 words per block) and a total of 4,800 points or 300 words.	Two-block inputs and two-block outputs (with a maximum of 1,600 points or 100 words per block) and a total of 1,600 points or 100 words.	— C200HW-DRM21-V1	
C200HS	1,024 points (512 inputs/ 512 outputs) (64 words)	Two-block inputs and two-block outputs (with a maximum of 1,280 points or 80 words per block) and a total of 1,280 points or 80 words.			

^{*} The DeviceNet Configurator is required for the Master Unit to be in configuration control.

Unit Specifications

Communicati	ons power su	pply voltage	11 to 25 VDC *1		
Current consumption			Communications: 45 mA max. Internal circuit: 250 mA max. at 5 VDC		
Max. number of connectable Slaves	Remote I/O (explicit	Configurator not in use	CS1H/CS1G/C200HX/C200HG/C200HE: C200HS:	50 32	
	message service)	Configurator in use	63 *2		
	FINS message service		8 *3		
Number of I/O points	Configurator not in use		CS1H/CS1G/C200HX/C200HG/C200HE: C200HS:	1,600 points (800 input and 800 output points) 1,024 points (512 input and 512 output points)	
	Configurator in use		CS1H/CS1G/C200HX/C200HG/C200HE: C200HS:	4,800 remote I/O points only, and 1,600 points with messages used 1,280 points	
Number of allocated words	Configurator not in use (fixed allocation)		CS1H/CS1G/C200HX/C200HG/C200HE: C200HS:	50 input and 50 output words and 10 words for software switch/status area 32 input and 32 output words with 10 words for software switch/status area	
	Configurator in use (free allocation)		Input x 2 blocks, output x 2 blocks (with a maximum of 100 words per block) *4 Software switch/Status area: 10 words		
	Max. message length (for FINS or explicit message)		160 bytes		
Max. number of Units	Configurator not in use		1		
	Configurator in use		10 (any C200HS CPU Unit or CS1, or C200HX, C200HG, or C200HE CPU Unit with a maximum of 880 I/O Points)		
mountable to PLC			16 (any CS1 or C200HX, C200HG, or C200HE CPU Unit with 880 I/O points or more)		
Weight			250 g max.		

- Refer to the *DeviceNet Operation Manual* (W267) for the communications power supply specifications. The Master Unit uses one node. Therefore 63 Slave Units can be connected.
- C200HS Series are not connected
- A maximum of 80 words per block can be used if the Master Unit is mounted to the C200HS Series.

Limitations on Master Unit Installation

With CS1H/G PLCs, make sure that the output area allocated to slaves and the area used for actual I/O (e.g., for Basic I/O Units) do not overlap.

The Master Units for the CS1H/G, C200HX, C200HG, C200HE, and C200HS overlap with the SYSMAC BUS Master Unit in allocated area. Therefore, it will not possible to mount the DeviceNet Master Unit and SYSMAC BUS Master Unit together to the same PLC unless the Configurator is used.

The Configurator cannot, however, be used with the C200H Series.

General Specifications

The specifications of the Unit are the same as those of the CS1H/G, C200HX, C200HG, C200HE, and C200HS. For specifications of CS1-series and C200HX/ HG/HE PCs, refer to the respective catalogs (CS1 Series: P047; C200HX/HG/ HE: P036).

Dimensions

35 x 130 x 101 mm (W x H x D)

Read and Understand this Catalog

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

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The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
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CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

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

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