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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	Max. number of I/O points			Model
	Configurator not in use	Configurator in use		
		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

Communications power supply 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 message service)	Configurator not in use: 50 Configurator in use: 32
	Configurator in use: 63 *2	
	FINS message service: 8 *3	
Number of I/O points	Configurator not in use	CS1H/CS1G/C200HX/C200HG/C200HE: 1,600 points (800 input and 800 output points) C200HS: 1,024 points (512 input and 512 output points)
	Configurator in use	CS1H/CS1G/C200HX/C200HG/C200HE: 4,800 remote I/O points only, and 1,600 points with messages used C200HS: 1,280 points
Number of allocated words	Configurator not in use (fixed allocation)	CS1H/CS1G/C200HX/C200HG/C200HE: 50 input and 50 output words and 10 words for software switch/status area C200HS: 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 mountable to PLC	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) 16 (any SYSMAC CS1 or C200HX, C200HG, or C200HE CPU Unit with 880 I/O points or more)
Weight		250 g max.

- *1. Refer to the *DeviceNet Operation Manual (W267)* for the communications power supply specifications.
- *2. The Master Unit uses one node. Therefore 63 Slave Units can be connected.
- *3. C200HS Series are not connected.
- *4. 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 be 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

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- Systems, machines, and equipment that could present a risk to life or property.

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

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