ID Sensor Unit
CJ1W-V600C11/V600C12
CS1W-V600C11/V600C12

Create Flexible Systems Based on Distributed Control and Centralized Management

- These Units can be combined with OMRON's comprehensive lineup of PLC Units to create the optimum system.
- Operations are the same for Single-head and Double-head Units, enabling effective reuse of ladder programs.
- A simple test function allows communications status to be checked without any special programming in the CPU Unit to greatly speed up the system startup.
- Maintenance is greatly simplified by a power supply failure flag and a monitoring function for communications turnaround time and error codes.

Ordering Information

■ List of Models

Classification	Model		Specifications	
ID Sensor Unit	CJ1W-V600C11		SYSMAC CJ1-series PLCs	Single-head
	CJ1W-V600C12			Double-head
	CS1W-V600C11		SYSMAC CS1-series PLCs	Single-head
	CS1W-V600C12			Double-head

Specifications

■ General Specifications

Item \ Model		CJ1W-V600C11	CJ1W-V600C12	CS1W-V600C11	CS1W-V600C12
Applicable PLC		CJ1 Series		CS1 Series	
Unit classification		Special I/O Units			
Compatible RFID System		V600 Series			
Ambient operating temperature		0 to 55°C			
Storage temperature		–20 to 75°C			
Ambient operating humidity		10% to 90% (with no condensation)			
Vibration/shock resistance		Conforms to CJ1 Series.		Conforms to CS1 Series.	
External power supply		Not required.			24 VDC+10%/–15%
Current consumption	5 V	0.26 A	0.32 A	0.26 A	0.32 A
	24 V	0.12 A	0.24 A	---	---
	26 V	---	---	0.12 A	0 A (Not used.)
	External	---	---	---	0.36 A
Weight		Approx. 120 g	Approx. 130 g	Approx. 180 g	Approx. 300 g
Applicable standards		UL, CE (EMS: EN61000-6-2, EMI: EN50081-2)			

■ Performance Specifications

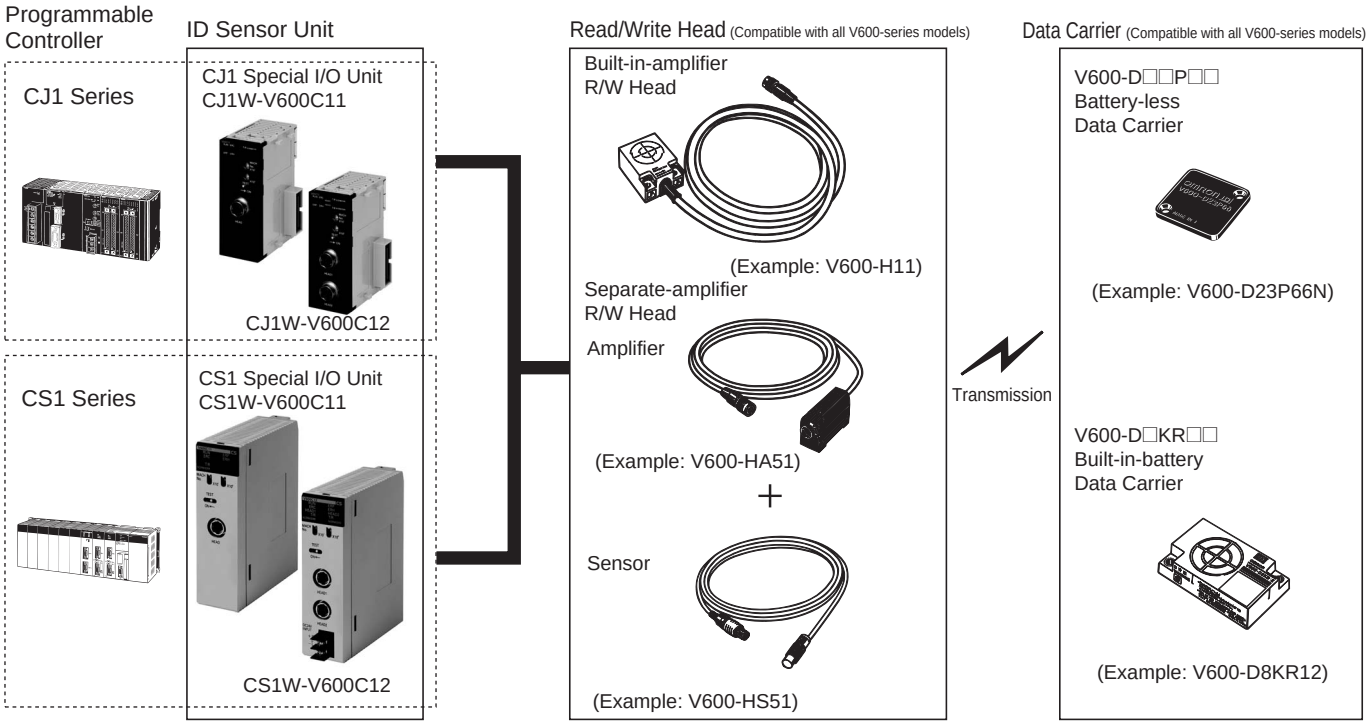
Model / Item	CJ1W-V600C11	CJ1W-V600C12	CS1W-V600C11	CS1W-V600C12
Unit number	0 to 95	0 to 94	0 to 95	0 to 94
Word allocation	10 words	20 words	10 words	20 words
Mounting position	CJ1 CPU Rack or Expansion Rack		CS1 CPU Rack or Expansion Rack/Long-distance Expansion Rack (The Units cannot be mounted to C200H I/O Expansion Racks or Remote I/O Slave Racks.)	
Number of mountable Units	The actual number of Units that can be mounted depends on the number of Units and their respective consumption currents. (Refer to data on current consumptions in the operation manual for the relevant CPU Unit.) The maximum number of ID Sensor Units (without any other Units) that can be mounted per Rack is as follows: CJ1W-V600C11: 4 per Rack CJ1W-V600C12: 2 per Rack CS1W-V600C11: 5 per Rack CS1W-V600C12: 10 per Rack (no restrictions) **Note:** The power supply for the CJ1W-V600C11/V600C12 is the CJ1W-PA205R.			
Communications control method	Controlled using the Special I/O Unit Area.			
Data transfer speed	Up to 2,048 bytes of data can be transferred at 160 bytes/scan (between the CPU Unit and the ID Sensor Unit)			
Compatible RFID System	V600 Series			
Possible number of R/W Heads	1 R/W Head	2 R/W Heads	1 R/W Head	2 R/W Heads
Commands (Figures in parentheses indicate the number of bytes that can be specified.)	Read/Write (1 to 2048) Data Fill (1 to 2048 or the last address) Copy (Double-head models only) (1 to 2048) Calculation Write (1 to 4) Bit Set/Bit Clear (1 to 4) Mask Bit Write (2) Data Check (2) Number of Writes Control (3)			

Communications processing time (See note.)	**Command**	**Data Carrier with built-in battery**	**Battery-less Data Carrier (time priority mode)**
	Read	1.8 × N + 48.4	1.8 × N + 79.0
	Write (with verify setting)	4.2 × N + 86.5	7.1 × N + 180.4
	Write (without verify setting)	2.2 × N + 72.8	4.3 × N + 132

Maintenance functions	Communications test function, processing result monitor function (communications TAT, error codes)
Error detection functions	Detects CPU errors and errors in communications with the Data Carrier, and checks the power supply for the Head.

Note: The command processing time can be calculated by adding the data transfer time to the communications processing time.

System Configuration



Note: For information related to Programmable Controller specifications, refer to the operation manual for relevant Programmable Controller.