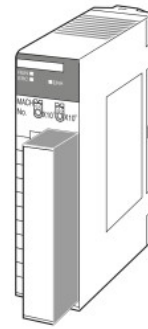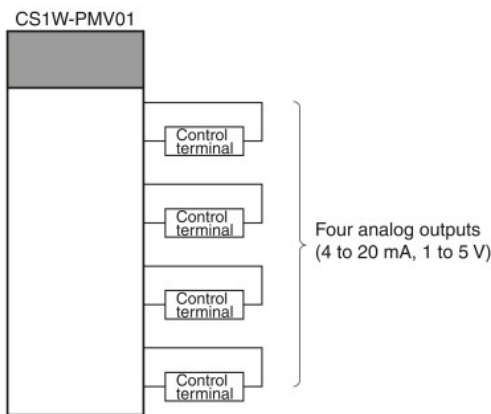# CS1W-PMV01 Isolated-type Analog Output Unit

Overview

Each cycle, the CS1W-PMV01 Isolated-type Analog Output Unit converts up to four analog output set values from the CPU Unit to either 4 to 20 mA or 1 to 5 V, and outputs them. It can also provide answer back for checking actual output values.

System Configuration

CS1W-PMV01

Control terminal
Control terminal
Control terminal
Control terminal

Four analog outputs
(4 to 20 mA, 1 to 5 V)

Specifications

Item		Specifications
Model		CS1W-PMV01
Applicable PLC		CS Series
Unit type		CS-series Special I/O Unit
Mounting position		CS-series CPU Rack or CS-series Expansion Rack (Cannot be mounted to C200H Expansion I/O Rack or SYSMAC BUS Remote I/O Slave Rack.)
Maximum number of Units		80 (within the allowable current consumption and power consumption range)
Unit numbers		00 to 95 (Cannot duplicate Special I/O Unit numbers.)
Areas for data exchange with CPU Unit	Special I/O Unit Area	10 words/Unit CPU Unit to Analog Output Unit: Analog output values for each output Analog Output Unit to CPU Unit: Answer input values for each output, output disconnection
	DM Area words allocated to Special I/O Units	100 words/Unit CPU Unit to Analog Output Unit: Output hold for when CPU Unit error occurs, high/low limit values, rate-of-change limit values (positive and negative directions), number of values for answer input moving average, zero/span adjustment for control outputs and answer inputs, etc.
Number of outputs		4
Output signal types		Either 4 to 20 mA or 1 to 5 V (separate for each of the four outputs). Switched according to the connection terminals.
User-defined scaling in industrial units		None
Data storage in the CIO Area		0 to 4,000 (0000 to 0FA0 hex), fixed 0: 4 mA or 1 V; 4,000: 20 mA or 5 V The values derived from carrying out the following processing in order of the values in the allocated words in the CIO Area are output in analog. 1) Output hold → 2) Rate-of-change limit → 3) Zero/span adjustment → 4) High/low limits Therefore, the values after processing are confirmed by analog inputs.
Accuracy (25°C)		When 4 to 20 mA: ±0.1% of full scale When 1 to 5 V: ±0.2% of full scale
Temperature coefficient		±0.015%/°C of full scale
Resolution		1/4,000 of full scale
Warmup time		10 min
Output response time		0.2 s (travel time from output 0% to 100%, for step output)
D/A conversion period		100 ms/4 outputs
Maximum time to store data in CPU Unit		Conversion period + one CPU Unit cycle