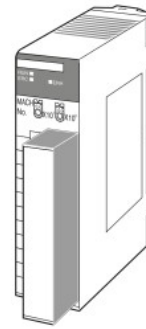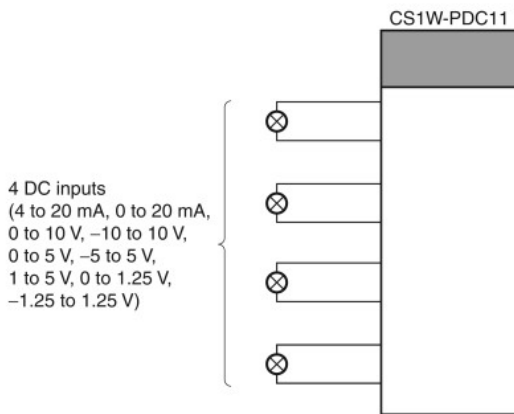# CS1W-PDC11 Isolated-type Direct Current Input Unit

Overview

The CS1W-PDC11 Isolated-type Direct Current Input Unit provides four direct-current inputs, and sends the data to the CPU Unit each cycle. All inputs are isolated.

System Configuration

CS1W-PDC11

4 DC inputs
(4 to 20 mA, 0 to 20 mA,
0 to 10 V, −10 to 10 V,
0 to 5 V, −5 to 5 V,
1 to 5 V, 0 to 1.25 V,
−1.25 to 1.25 V)

Specifications

Item		Specifications
Model		CS1W-PDC11
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 Isolated-type Direct Current Input Unit to CPU Unit: All process values, process value alarms (LL, L, H, HH), rate-of-change values, rate-of-change alarms (L, H), disconnection alarms, cold junction sensor errors, adjustment period end/notice
	DM Area words allocated to Special I/O Units	100 words/Unit CPU Unit to Isolated-type Direct Current Input Unit: Input signal type, scaling of process value in industrial units, process value alarm setting (L, H), inrush input upper limit, inrush input upper limit time, zero/span adjustment value, Square root function. Temperature input signal type, input range (user set), scaling of process value data to be stored in allocated words in CIO area, rate-of-change input range, scaling of rate-of-change data, number of items for moving average, process value alarm setting (LL, L, H, HH), rate-of-change alarm setting (L, H), zero/span adjustment value
	Expansion Control/Monitor Area	35 words/Unit CPU Unit to Isolated-type Direct Current Input Unit: Bits for beginning or resetting the hold function selection, adjustment period control, control bits Isolated-type Direct Current Input Unit to CPU Unit: Adjustment period notices, peak and bottom values, top and valley values, integral values
	Expansion Setting Area	46 words/Unit CPU Unit to Isolated-type Direct Current Input Unit: Expansion Setting Area settings, adjustment period control, peak and bottom detection, top and valley detection, integral value calculation
Number of inputs		4
Input signal type		4 to 20 mA, 0 to 20 mA, 0 to 10 V, −10 to 10 V, 0 to 5 V, −5 to 5 V, 1 to 5 V, 0 to 1.25 V, −1.25 to 1.25 V (separate for each input), and ±10-V user-set range (specified range within −10.000 V to 10.000 V)
Scaling		Data to be stored in the allocated words in the CIO area must be scaled (Any minimum and maximum values can be set.) (4 inputs set separately.) Data can be converted at 0% to 100%.
Data storage in the CIO Area		The value derived from carrying out the following processing in order of the actual process data in the input range is stored in four digits hexadecimal (binary values) in the allocated words in the CIO Area. 1) Mean value processing → 2) Scaling → 3) Zero/span adjustment → 4) Square root calculation → 5) Output limits
Accuracy (25°C)		±0.05%