

For Various Analog I/Os

- Analog Input Units for converting analog input signals into binary data
- Analog Output Units for converting binary data into analog output signals



CS1W-MAD44



CS1W-DA08V



CS1W-AD081-V1

Features

Analog Input Unit:

- Holds a maximum of 16 analog input signals in 1 unit.
- Reduces wiring using MIL connector (CS1W-AD161)
- Connector-Terminal Block Conversion Unit and Connecting Cable available for CS1W-AD161
- With functions including line disconnection detection, peak value holding, as well as mean value processing
- Scaling function (CS1W-AD161 only)

Analog Output Unit:

- Outputs a maximum of 8 analog output signals in 1 unit.
- Output hold function

Analog I/O Unit:

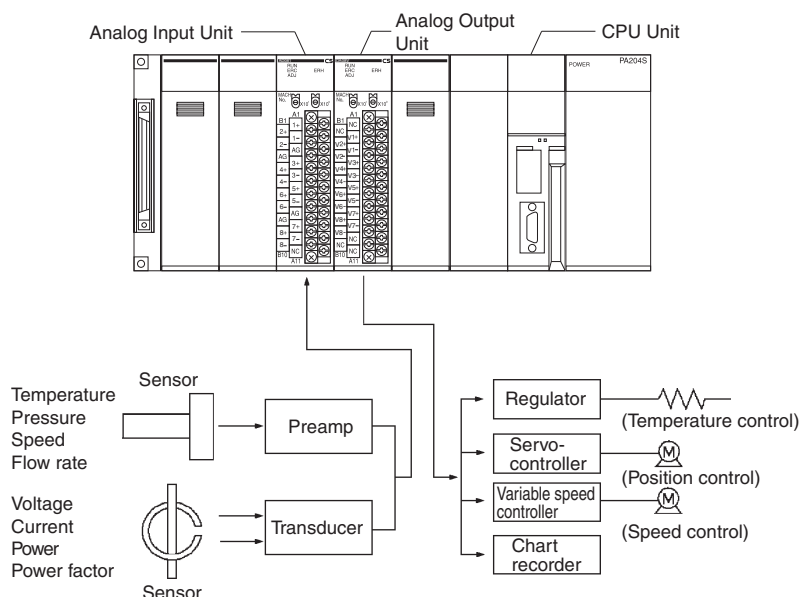
- Has both analog input and output signals
- Ratio conversion function stores the results of positive and negative gradient analog inputs calculated for ratio and bias as analog output values
- Hold a maximum of 4 analog input signals and outputs 4 analog output signals in 1 unit

Analog Input functions - Peak value holding, mean value processing and line disconnection detection

Analog Output functions - Output hold function

System Configuration

CS-series PLCs



Note: The above diagram is an installation example for the CS1W-AD081-V1 Analog Input Unit and CS1W-DA08V Analog Output Unit.

Ordering Information

Applicable standards

Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

Analog Input Units

Unit type	Product name	Specifications						Model	No. of Unit numbers allocated	Current consumption (A)	
		I/O points	Signal range selection	Signal range	Resolution	Conversion speed	External connection			5V	26V
CS-series Special I/O Units	Analog Input Units	4 inputs	Set separately for each input	1 to 5 V, 0 to 5 V, 0 to 10 V, −10 V to 10 V, 4 to 20 mA	1/8,000 (Settable to 1/4,000)	250 s/point max. (Settable to 1 ms/point)	Removable terminal block	CS1W-AD041-V1	1	0.12	0.09
		8 inputs		1 to 5 V, 0 to 5 V, 0 to 10 V, −10 V to 10 V, 4 to 20 mA	1/8,000 (Settable to 1/4,000)	250 s/point max. (Settable to 1 ms/point)	Removable terminal block	CS1W-AD081-V1	2	0.12	0.09
		16 inputs		1 to 5 V, 0 to 5 V, 0 to 10 V, −10 V to 10 V, 4 to 20 mA	1/8,000 (Settable to 1/4,000)	250 s/point max. (Settable to 1 ms/point)	MIL connector	CS1W-AD161		0.15	0.06
	CS1W-AD161 Connector-Terminal block conversion Units	Slim-type terminal block 34 terminal, dimensions: 128 × 40 × 39 mm						XW2D-34G6	—		
		Connecting cable Length: 2 m						XW2Z-200C	—		

Analog Output Units

Unit type	Product name	Specifications						Model	No. of Unit numbers allocated	Current consumption (A)	
		I/O points	Signal range selection	Signal range	Resolution	Conversion speed	External connection			5V	26V
CS1 Special analog I/O Units	Analog Output Units	4 outputs	Set separately for each input	1 to 5 V, 0 to 5 V, 0 to 10 V, –10 V to 10 V, 4 to 20 mA	1/4,000	1 ms/point	Removable terminal block	CS1W-DA041	1	0.13	0.18
		8 outputs		1 to 5 V, 0 to 5 V, 0 to 10 V, –10 V to 10 V	1/4,000	1 ms/point		CS1W-DA08V		0.13	0.18
		8 outputs		4 to 20 mA	1/4,000	1 ms/point		CS1W-DA08C		0.13	0.25

Analog I/O Units

Unit type	Product name	Specifications						Model	No. of Unit numbers allocated	Current consumption (A)	
		I/O points	Signal range selection	Signal range	Resolution	Conversion speed	External connection			5V	26V
CS1 Special analog I/O Units	Analog I/O Units	4 inputs	Set separately for each input	1 to 5 V, 0 to 5 V, 0 to 10 V, –10 V to 10 V, 4 to 20 mA	1/4,000	1 ms/point	Removable terminal block	CS1W-MAD44	1	0.20	0.20
		4 outputs		1 to 5 V, 0 to 5 V, 0 to 10 V, –10 V to 10 V	1/4,000	1 ms/point					