

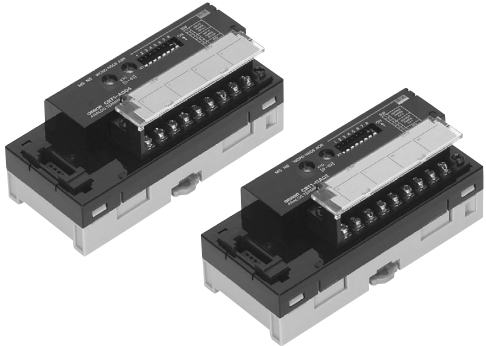
# Analog I/O Slave Units

# CRT1-AD04/DA02

## Convert to Smart for Smarter Processing! Simple and Intelligent Analog I/O Slaves

In addition to analog data input and output, Analog I/O Slave Units can use a variety of functions internally, such as scaling, that previously required processing in ladder programming at the host PLC.

- Analog processing equivalent to digital panel meters is supported, such as with the scaling function.
- Use deviation and cumulative counter functions for analog calculations, such as for equipment error prediction and flow rate applications.
- The user adjustment function can be used to compensate offsets in inputs or outputs.
- Easily change the input or output range with a switch setting.



### Ordering Information

Name	Specifications		Model
Analog I/O Slave Units *	Analog inputs	4 inputs	CRT1-AD04
	Analog outputs	2 outputs	CRT1-DA02

\* These Units are also available with a DCN-TB4 Terminal Conversion Adapter included in the package. Add "(-B)" to the end of the model number to receive the Adapter as well.

### Performance Specifications

For Basic Performance Specifications of Slave Units, refer to page 32.

## Input Section Specifications

Item	Specification		
	Voltage input	Current input	
Model	CRT1-AD04		
Input signal ranges	0 to 5 V 1 to 5 V 0 to 10 V -10 to 10 V	0 to 20 mA 4 to 20 mA	
Maximum signal input	±15 V	±30 mA	
Input impedance	1 M Ω min.	Approx. 250 Ω	
Resolution	1/6,000 (full scale)		
Overall accuracy	25°C	±0.3% FS	±0.4% FS
	-10 to 55°C	±0.6% FS	±0.8% FS
Conversion cycle	1 ms/1 points		
AD conversion data	-10 to 10 V range: F448 to 0BB8 hex full scale (-3,000 to 3,000) Other ranges: 0000 to 1770 hex full scale (0 to 6,000) AD conversion range: ±5% FS of the above data ranges.		
Isolation method	Photocoupler isolation (between input and communications lines) No isolation between input signal wires		
Mounting	DIN Track mounting		
Power supply type	Multi-power supply		
Communications power current consumption	110 mA max. for 24-VDC power supply 175 mA max. for 14-VDC power supply		
Weight	153 g		

## Output Section Specifications

Item	Specification		
	Voltage output	Current output	
Model	CRT1-DA02		
Output signal ranges	0 to 5 V 1 to 5 V 0 to 10 V -10 to 10 V	0 to 20 mA 4 to 20 mA	
External output allowable load resistance	1 kΩ min.	600 Ω max.	
Resolution	1/6,000 (full scale)		
Overall accuracy	25°C	±0.4% FS	±0.4% FS *
	-10 to 55°C	±0.8% FS	±0.8% FS *
Conversion cycle	2 ms/2 points		
DA conversion data	-10 to 10 V range: F448 to 0BB8 hex full scale (-3,000 to 3,000) Other ranges: 0000 to 1770 hex full scale (0 to 6,000) AD conversion range: ±5% FS of the above data ranges.		
Isolation method	Photocoupler isolation (between output and communications lines) No isolation between output signal wires.		
Mounting	DIN Track mounting		
Power supply type	Multi-power supply		
Communications power current consumption	125 mA max. for 24-VDC power supply 205 mA max. for 14-VDC power supply		
Weight	155 g		

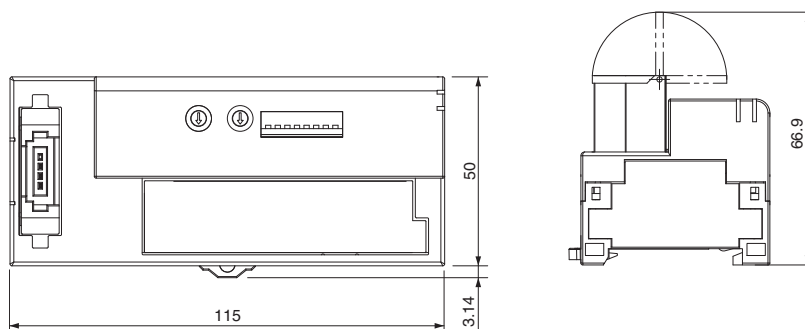
\* The specified accuracy does not apply below 0.2 mA when using the 0 to 20 mA range.

## Dimensions

(Unit: mm)

CRT1-AD04

CRT1-DA02



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