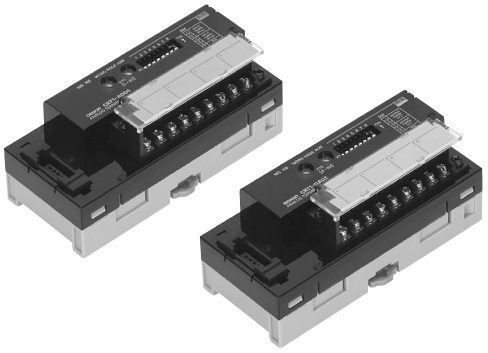
Analog I/O Slave Units

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

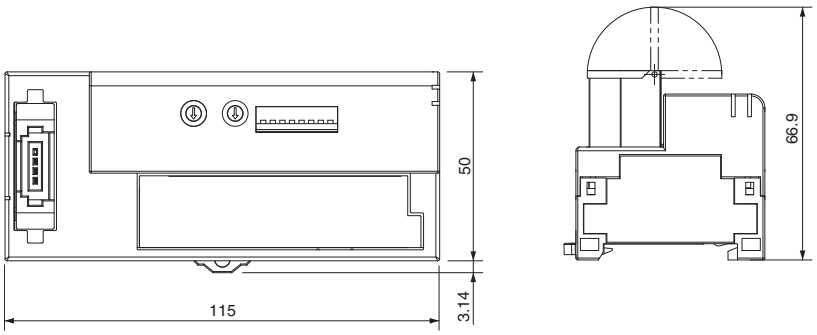
Item		Specification	
		Voltage output	Current output
Model		CRT1-DA02	
Output signal ranges		0 to 5 V 1 to 5 V 0 to 10 V –10 to 10 V	0 to 20 mA 4 to 20 mA
External output allowable load resistance		1 kΩ min.	600 Ω max.
Resolution		1/6,000 (full scale)	
Overall accuracy	25°C	±0.4% FS	±0.4% FS *
	–10 to 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



Read and Understand This Catalog

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