

Analog I/O Slave Units (Numerical indicator type)

CRT1-VAD02□□D/-VDA02□□D

Analog slave unit with numerical indicator!

Ensure easy setting in system start-up

- Numerical indicator facilitates system start-up and maintenance work
- Ladder-free simple local control if combined with expansion unit (option)
- MIL connector and e-CON connector
- Testing function addition for system start-up



Ordering Information

Name	Specifications		Model
	Input/Output	Points	
Analog I/O Slave Units (Numerical indicator type) MIL Connector Type	Analog inputs (Channel Insulation)	2 inputs	CRT1-VAD02MLD
	Analog outputs	2 outputs	CRT1-VDA02MLD
Analog I/O Slave Units (Numerical indicator type) e-CON Connector Type	Analog inputs (Channel Insulation)	2 inputs	CRT1-VAD02SD
	Analog outputs	2 outputs	CRT1-VDA02SD

Slave External I/O Connections in the appendix for applicable connectors.

Performance Specifications

Items	Specifications
Communications power voltage	14.0 to 26.4 VDC
Noise immunity	Conform to IEC61000-4-4, 2 kV (power line)
Vibration resistance	10 to 150 Hz, double amplitude 0.7 mm or 50 m/s ²
Shock resistance	150 m/s ² (three times each in 6 directions of 3 axes)
Dialectic resistance	500 VAC (between insulated circuits)
Insulation resistance	20 MΩ min (between insulated circuits)
Ambient operating temperature	-10 to +55 °C
Ambient operating humidity	25 to 85 % (with no condensation)
Ambient operating atmosphere	No corrosive gas
Storage temperature	-25 to +65 °C
Storage humidity	25 to 85 % (with no condensation)
Installation method	DIN Track 35 mm or Mounting Bracket (for Expansion Units excluded)

Input Section Specifications

Item	Specification and Performance	
	Voltage input	Current input
Input range (signal)	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	1MΩ min	approx. 250 Ω
Resolution	1/6000 (full scale)	
Overall accuracy	25 °C	±0.3%FS
	-10 to + 55°C	±0.6%FS
Conversion cycle	2 ms per two points	
AD conversion data	-10 to +10 V range: F448 to 0BB8 hex full scale (-3000 to +3000) Others: 0000 to 1770 hex full scale (0 to 6000) AD conversion range: ±5 % FS of the above data range.	
Insulation method	Photocoupler isolation (between inputs and communications lines or input signals)	
Communications power consumption	70 mA max. for 24-VDC power supply 105 mA max. for 14-VDC power supply	
Weight	CRT1-VAD02SD: 109 g CRT1-VAD02MLD: 113 g	

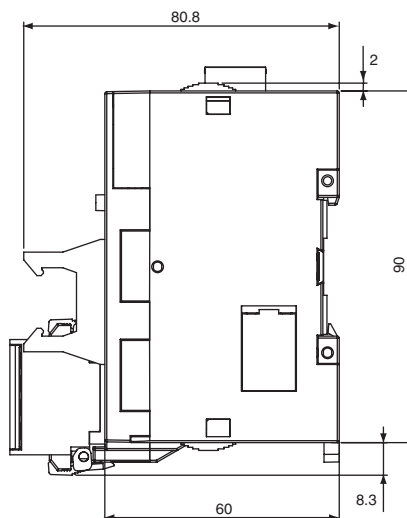
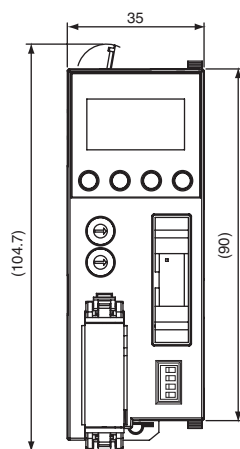
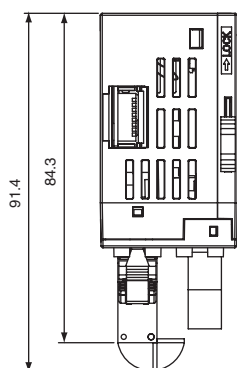
Output Section Specifications

Item	Specification and Performance	
	Voltage output	Current output
Output range (signal)	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 permissible load resistance	5 kΩ min	600 Ω max
Resolution	1/6000 (full scale)	
Overall accuracy	25 °C	±0.4%FS
	-10 to + 55°C	±0.8%FS
Conversion cycle	2 ms per two points	
DA conversion data	-10 to +10 V range: F448 to 0BB8 hex full scale (-3000 to +3000) Others: 0000 to 1770 hex full scale (0 to 6000) DA conversion range: ±5% FS of the above data range.	
Insulation method	Photocoupler isolation (between output and communications lines) No isolation between output signal wires	
Communications power consumption	125 mA max. for 24-VDC power supply 195 mA max. for 14-VDC power supply	
Weight	CRT1-VDA02SD: 106 g CRT1-VDA02MLD: 112 g	

* In current input mode of 0 to 20 mA, accuracy below 0.2 mA is not assured.

Dimensions

(Unit: mm)



Note: The numbers inside the parentheses are reference dimensions.

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