2-1 Specifications

2-1-1 General Specifications

All general specifications of the C200H-AD003 Analog Input Unit conform to those of the C200H, C200HS, and C200HX/HG/HE Series.

2-1-2 Performance Specifications

Item		C200H-AD003	
		Voltage input	Current input
Number of analog inputs		8	
Input signal range (note 1)		0 to 10 V –10 to 10 V 1 to 5 V	4 to 20 mA
Max. input signal (note 2)		±15 V	±30 mA
Input impedance		1 MΩ min.	250 Ω (rated value)
Resolution		1/4000 (full scale)	
Converted output data		16-bit binary data	
Accuracy (note 3)	23°±2°C	±0.2% of full scale	±0.4% of full scale
	0° to 55°C	±0.4% of full scale	±0.6% of full scale
Conversion time (note 4)		1.0 ms/point	
Isolation		Between input terminals and PC: photocoupler (No isolation between individual input signals.)	
External connectors		28-point terminal block (M3 screws)	
Power consumption		100 mA max. at 5 VDC 100 mA max. at 26 VDC	
Dimensions		34.5 x 130 x 128 (W x H x D) mm (refer to *Appendix A Dimensions*)	
Weight		450 g max.	

Note

1. The input signal range can be set individually for each input.
2. Operation in ranges beyond the maximum input signals will damage the Unit. Operate within the ranges listed above.
3. The accuracy is given for full scale. For example, an accuracy of ±0.2% means a maximum error of ±8 (BCD).
   The default setting is adjusted with the voltage input. When using the current input, perform the offset and gain adjustment as required.
4. A/D conversion time is the time it takes for an analog signal to be stored in memory as converted data after it has been input. It takes at least one cycle before the converted data is read by the CPU Unit.
   By executing an I/O refresh, the conversion time may be extended by an additional 0.3 ms approximately.