Common Specifications for Process and Analog I/O Units

Item	Specifications			
Unit classification	CS-series Special I/O Unit			
Dimensions	35 × 130 × 126 mm (W × H × D)			
Weight	450 g max.			
External connection terminals	CS1W-PTS55/56, PDC55: 24-point detachable terminal block (lever type) (M3 screws, with tightening torque of 0.5 N·m) CS1W-AD161: MIL connectors (34-pin × 2) Other models: 21-point detachable terminal block (M3 screws, with tightening torque of 0.5 N·m)			
Unit number switch	00 to 95			
Self-diagnostic function	Results shown by LED indicators.			
Mounting position	CS-series CPU Rack or CS-series Expansion Rack			
Internal current consumption	Confirm that the total current consumption of all the Units (including the CPU Unit) mounted to a single CPU Rack or Expansion Rack does not exceed the maximum power supplied by the Power Supply Unit.			
	Name	Model	Current consumption (power)	
			5 V	26 V
	Isolated-type Thermocouple Input Unit	CS1W-PTS01-V1	0.15 A (0.75 W)	0.15 A (3.9 W)
		CS1W-PTS11	0.12 A (0.6 W)	0.08 A (2.08 W)
		CS1W-PTS51	0.25 A (1.25 W)	Unused.
		CS1W-PTS55	0.18 A (0.9 W)	0.06 A (1.56 W)
	Isolated-type Resistance Thermometer Input Unit (Pt100, JPt100)	CS1W-PTS02	0.15 A (0.75 W)	0.15 A (3.9 W)
	Isolated-type Resistance Thermometer Input Unit (Ni508.4 Ω)	CS1W-PTS03	0.15 A (0.75 W)	0.15 A (3.9 W)
	Isolated-type Resistance Thermometer Input Unit (Pt100, JPt100, Ni508.4 Ω)	CS1W-PTS12	0.12 A (0.6 W)	0.07 A (1.82 W)
	Isolated-type Resistance Thermometer Input Unit (Pt100, JPt100)	CS1W-PTS52	0.25 A (1.25 W)	Unused.
		CS1W-PTS56	0.18 A (0.9 W)	0.06 A (1.56 W)
	Isolated-type 2-Wire Transmitter Input Unit	CS1W-PTW01	0.15 A (0.75 W)	0.16 A (4.2 W)
	Isolated-type DC Input Unit	CS1W-PDC01	0.15 A (0.75 W)	0.16 A (4.2 W)
		CS1W-PDC11	0.12 A (0.6 W)	0.12 A (3.12 W)
		CS1W-PDC55	0.18 A (0.9 W)	0.06 A (1.56 W)
	Power Transducer Input Unit	CS1W-PTR01	0.15 A (0.75 W)	0.08 A (2.1 W)
	Analog Input Unit (100 mV)	CS1W-PTR02	0.15 A (0.75 W)	0.08 A (2.1 W)
	Isolated-type Pulse Input Unit	CS1W-PPS01	0.20 A (1.0 W)	0.16 A (4.2 W)
	Isolated-type Analog Output Units	CS1W-PMV01	0.15 A (0.75 W)	0.16 A (4.2 W)
		CS1W-PMV02	0.12 A (0.6 W)	0.12 A (3.2 W)
	Analog Input Units	CS1W-AD041-V1	0.12 A (0.6 W)	0.09 A (2.34 W)
		CS1W-AD081-V1		
		CS1W-AD161	0.15 A (0.75 W)	0.06 A (1.56 W)
	Analog Output Units	CS1W-DA041	0.13 A (0.65 W)	0.18 A (4.68 W)
		CS1W-DA08V		
		CS1W-DA08C		0.25 A (6.5 W)
	Analog I/O Unit	CS1W-MAD44	0.2 A (1.0 W)	0.2 A (5.2 W)
	(Reference) Maximum current and total power supplied			
	Power Supply Unit	Maximum current supplied (power)		Maximum total power
		5 V	26 V	24 V
	C200HW-PA204	4.6 A (23 W)	0.6 A (15.6 W)	None	30 W
	C200HW-PA204S			0.8 A (19.2 W)	
	C200HW-PA204R			None	
	C200HW-PD024				
	C200HW-PD025	5.3 A (26.5 W)	1.3 A (33. 8 W)		40 W
	C200HW-PA209R	9 A (45 W)	1.3 A (33.8 W)		45 W
	CS1D-PA207R	7 A (35 W)	1.3 A (33.8 W)		35 W
	CS1D-PD024	4.3 A (21.5 W)	0.56 A (14.6 W)		28 W
	CS1D-PD025	5.3 A (26.5 W)	1.3 A (33.8 W)		40 W
Ambient operating temperature	0 to 55°C			
Ambient operating humidity	10% to 90% (no condensation)			
Isolation	Between I/O, and between inputs and the Backplane. There is no isolation, however, between inputs for Power Supply Transducer Input Units, Current Input Units (100 mV), Analog Input Units, Analog Output Units, and I/O Units.			
Insulation resistance	20 MΩ min. (at 500 V DC) between isolated sections			
Dielectric strength	1,000 V AC between isolated sections			

Note: Process Analog I/O Units can be used even if a Loop Control Board is not used.