SYSMAC CJ-series Power Supply Unit

CSM_CJ1W-PA_PD_DS_E_3_1

Equipped with the RUN output for checking the operation status, as well as the replacement notification function for easy maintenance. Lineup of five models including the AC power supply (25W).



CJ1W-PA205C



CJ1W-PA202

• Stable power supply is available from the CJ-series CPU Unit to each I/O Units via the dedicated bus. The

most suitable Power Supply Unit can be selected among various I/O specifications and/or options.

Features

• The replacement notification function can prevent an overflow of the system due to the power lifetime. (CJ1W-PA205C only)

- Power Supply Unit provides wide variations according to the system scale up to maximum 25 W.
- Power Supply Unit provides wide variations according to the power supply (100 to 240 V AC/ 24 V DC) status.
- The output contact during operation enables you to check the CPU operation. (CJ1W-PA205R only)
- Conforming to the SEMI-F47 Standard. *
- *AC input type, 200 V min. input.

Ordering Information

Power Supply Units

				Output capa	city		Options		Model	Standards
		Power supply voltage	5-VDC output capacity	24-VDC output capacity	Total power consumption	24-VDC service power supply	RUN output	Maintenance forecast monitor		
AC Power Supply Unit		100 to 240 VAC	5 A 0.8 A	0.8 4	25 W		No	Yes	CJ1W-PA205C	
						Yes	No	CJ1W-PA205R	UC1, N, L,	
			2.8 A	0.4 A	14 W	No	No	No	CJ1W-PA202	CE
DC Power Supply Unit		24 VDC	5A	0.8 A	25 W		No	No	CJ1W-PD025	
		24 000	2 A	0.4 A	19.6 W		No	No	CJ1W-PD022	UC1, CE

Accessories

There is no accessory for the CJ series Power Supply Unit.

International Standards

- The standards are abbreviated as follows: U: UL, U1: UL(Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, and CE: EC Directives.
- Contact your OMRON representative for further details and applicable conditions for these standards.

2

Specifications

Item			Specifications		
Power Supply Unit	CJ1W-PA205R	CJ1W-PA205C	CJ1W-PA202	CJ1W-PD025	CJ1W-PD022
Supply voltage	100 to 240 V AC (wide-range), 50/60 Hz		24 VDC	
Operating voltage and frequency ranges	85 to 264 V AC, 47 to 63 Hz			19.2 to 28.8 V DC	21.6 to 26.4 V DC
Power consumption	100 VA max.		50 VA max.	50 W max.	35 W max.
Inrush current *1	At 100 to 120 V AC: 15 A/8 ms max. for cold start at room temperature At 200 to 240 V AC: 30 A/8 ms max. for cold start at room temperature		At 100 to 120 V AC: 20 A/8 ms max. for cold start at room temperature At 200 to 240 V AC: 40 A/8 ms max. for cold start at room temperature	At 24 V DC: 30 A/20 ms max. for cold start at room tempera	
Output capacity *7	5.0 A, 5 V DC (including supp	bly to CPU Unit)	2.8 A, 5 V DC (including supply to CPU Unit)	5.0 A, 5 V DC (including supply to CPU Unit)	2.0 A, 5 V DC (including supply to CPL Unit)
	0.8 A, 24 V DC		0.4 A, 24 V DC	0.8 A, 24 V DC	0.4 A, 24 V DC
	Total: 25 W max.		Total: 14 W max.	Total: 25 W max.	Total: 19.6 W max.
Output terminal service supply)	Not provided.				
RUN output *2	Contact configuration: SPST-NO Switch capacity: 250 V AC, 2 A (resistive load) 120 V AC, 0.5 A (inductive load), 24 V DC, 2A (resistive load) 24 V DC, 2 A (inductive load)	Not provided.			
Replacement notification function	Not provided.	With Alarm output (open- collector output) 30 V DC max., 50 mA max.	Not provided.		
Insulation resistance	20 MΩ min. (at 500 V DC) between AC external and GR terminals *3	 20 MΩ min. (at 500 V DC) between all external terminals and GR terminal *3, and between all alarm output terminals. 20 MΩ 1 min. (at 250 V DC) between all alarm output terminals and GR terminal *3. 	20 MΩ min. (at 500 V DC) between AC external and GR terminals *3	20 MΩ min. (at 500 V DC) between DC external and GR terminals *3	*6
Dielectric strength *4	2,300 V AC 50/60 Hz for 1 min between AC external and GR terminals *3 Leakage current: 10 mA max.	 2,300 VAC, 50/60 Hz for 1 minute between all external terminals and GR terminal *3 and between all alarm output terminals with a leakage current of 10 mA max. 1,000 V AC, 50/60 Hz for 1 minute between all alarm output terminals and GR terminal *3 with a leakage current of 10 mA max. 	2,300 V AC 50/60 Hz for 1 min between AC external and GR terminals *3 Leakage current: 10 mA max.	1,000 V AC, 50/60 Hz for 1 minute between DC external and GR terminals *3 Leakage current: 10 mA max.	*6
	1,000 V AC, 50/60 Hz for 1 m				
	Leakage current: 10 mA max				
Noise immunity	2 kV on power supply line (co	priforming to IEC61000-4-4)			
Vibration resistance	Conforms to IEC60068-2-6 5 to 8.4 Hz with 3.5-mm amp Acceleration of 9.8 m/s ² for 1		ons (10 sweeps of 10 min e	ach = 100 min)	
Shock resistance	Conforms to IEC60068-2-27 147 m/s ² , 3 times in X, Y, and Z directions (100 m/s ² for Relay Output Units)				
Ambient operating temperature	0 to 55°C				
Ambient operating humidity	10% to 90% (with no condensation)	10% to 90% (with no condensation) *5	10% to 90% (with no condensation)		
Atmosphere	Must be free from corrosive g		1		
Ambient storage	Must be free from corrosive gases. -20 to 70°C (excluding battery) -20 to 75°C (See note 5.) -20 to 75°C (excluding battery)				
temperature	Less than 100 Ω				
emperature		<u> </u>			

Item	Specifications					
Power Supply Unit	CJ1W-PA205R	CJ1W-PA205C	CJ1W-PA202	CJ1W-PD025	CJ1W-PD022	
CPU Rack dimensions	Conversion Conversion Conversion Conversion Conversion 90.7 to 466.7 × 90 × 65 mm (W × H × D) (not including cables) Note: W = a + b + 20 × n + 31 × m + 14.7 a: Power Supply Unit: PA205R and PA205C = 80; PA202 = 45; PD025 = 60; PD022=27 b: CPU Unit: CJ1+H or CJ1 = 62; CJ1M-CPU1 = 31; CJ1M-CPU2 = 49 The total width is given by the following: W = 156.7 + n × 20 + m × 31, where n is the number of 32-point I/O Units or I/O Control Units and m is the number of other Units.					
Safety measures	Conforms to cULus and EC I	Directives.				

*1. Disconnect the Power Supply Units LG terminal from the GR terminal when testing insulation and dielectric strength. Testing the insulation and dielectric strength with the LG terminal and the GR terminals connected will damage internal circuits in the CPU Unit.

*2. Supported only when mounted to CPU Rack.

*3. The inrush current is given for a cold start at room temperature. The inrush control circuit uses a thermistor element with a low-temperature current control characteristic. If the ambient temperature is high or the PLC is hot-started, the thermistor will not be sufficiently cool, and the inrush currents given in the table may be exceeded by up to twice the given values. When selecting fuses or breakers for external circuits, allow sufficient margin in shut-off performance.

*4. Maintain an ambient storage temperature of -25 to 30°C and relative humidity of 25% to 70% when storing the Unit for longer than 3 months to keep the replacement notification function in optimum working condition. *5. Change the applied voltage gradually using the adjuster on the Tester. If the full dielectric strength voltage is applied or turned OFF using the

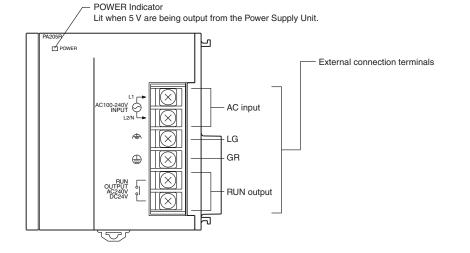
switch on the Tester, the generated impulse voltage may damage the Power Supply Unit.

*6. CJ1W-PD022 is not insulated between the primary DC power and secondary DC power.

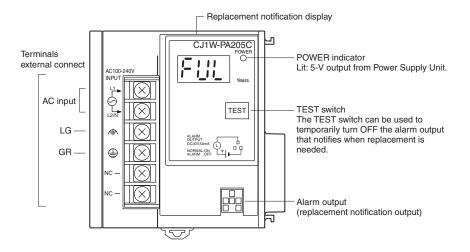
*7. Internal components in the Power Supply Unit will deteriorate or be damaged if the Power Supply Unit is used for an extended period of time exceeding the power supply output capacity or if the outputs are shorted.

External Interface

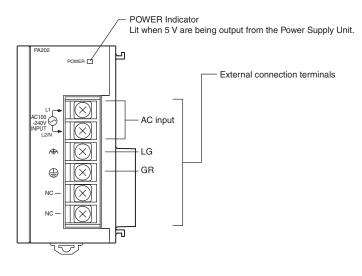
CJ1W-PA205R



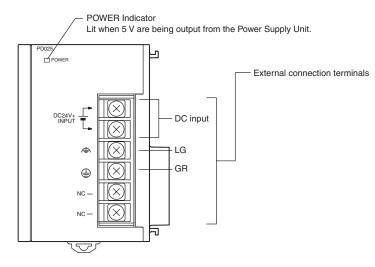
CJ1W-PA205C



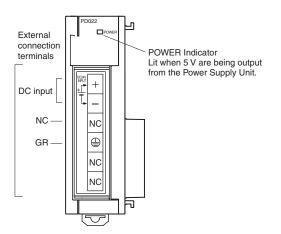
CJ1W-PA202



CJ1W-PD025



CJ1W-PD022



AC Input

Supply 100 to 240 V AC (allowable: 85 to 264 V AC). (Voltage selection is not required.)

DC Input

Supply 24 V DC.

Model	Allowable power supply voltage fluctuation range		
CJ1W-PD025	19.2 to 28.8 VDC (±20%)		
CJ1W-PD022	21.6 to 26.4 VDC (±10%)		

LG

Ground to a resistance of 100 Ω or less to increase noise resistance and avoid electric shock.

GR

Ground to a resistance of 100 Ω or less to avoid electric shock.

RUN Output (CJ1W-PA205R Only)

The internal contact turns ON when the CPU Unit is operating (RUN or MONITOR mode). The Power Supply Unit must be in the CPU Rack to use this output.

Alarm Output (CJ1W-PA205C Only)

The alarm output is used to notify when Power Supply Unit replacement is required. The output is normally ON. The output turns OFF when the time until replacement is 6 months or less.

Wiring ^{Wire}

For AC/DC power supply

Recommended wire size	AWG14 to 20
	(0.517 to 2.08mm ²)

For grounding wire

Recommended wire size	2 mm ² min.

For alarm output

Recommended wire size	Use	Pushing strength (clamping operation)	Pulling strength (holding force)	Length of stripped section	
AWG 22 to 18 (0.32 to 0.82 mm ²)	Connecting to PLC terminal block models	30 N max.	30 N min.	7 to 10 mm	
AWG 28 to 24 (0.08 to 0.2 mm ²)	Connecting to PLC connector models	SUN MAX.	10 N min.		

Crimp Terminals

The terminals on the Power Supply Unit are M4, self-raising terminals with screws. Use crimp terminals for wiring.

Crimp terminal for the AC power supply



Crimp terminal for the DC power supply



Crimp terminal for the grounding wire



The crimp terminal is not required for the alarm output.

Checking Current Consumption and Power Consumption

After selecting a Power Supply Unit based on considerations such as the power supply voltage, calculate the current and power requirements for each Rack.

Condition 1: Current Requirements

There are two voltage groups for internal power consumption: 5 V and 24 V. Current consumption at 5 V (internal logic power supply) Current consumption at 24 V (relay driving power supply)

Condition 2: Power Requirements

For each Rack, the upper limits are determined for the current and power that can be provided to the mounted Units. Design the system so that the total current consumption for all the mounted Units does not exceed the maximum total power or the maximum current supplied for the voltage groups shown in the following tables.

The maximum current and total power supplied for CPU Racks and Expansion Racks according to the Power Supply Unit model are shown below. **Note: 1.** For CPU Racks, include the CPU Unit current and power consumption in the calculations. When expanding, also include the current and power consumption of the I/O Control Unit in the calculations.

2. For Expansion Racks, include the I/O Interface Unit current and power consumption in the calculations.

Power Supply Units	Max. curre	Max. total power supplied	
Power Supply Onits	5 V	24 V (relay driving current)	Max. total power supplied
CJ1W-PA205R	5.0 A	0.8 A	25 W
CJ1W-PA205C	5.0 A	0.8 A	25 W
CJ1W-PA202	2.8 A	0.4 A	14 W
CJ1W-PD025	5.0 A	0.8 A	25 W
CJ1W-PD022	2.0 A	0.4 A	19.6 W

Conditions 1 and 2 below must be satisfied.

Condition 1: Maximum Current

(1) Total Unit current consumption at 5 V \leq (A) value

(2) Total Unit current consumption at 24 V \leq (B) value

Condition 2: Maximum Power

(1) \times 5 V + (2) \times 24 V \leq (C) value

Example: Calculating Total Current and Power Consumption

Example: When the Following Units are Mounted to a CJ-series CPU Rack Using a CJ1W-PA202 Power Supply Unit

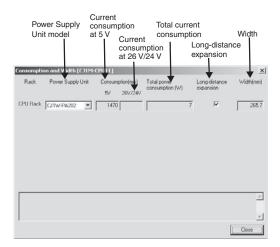
Unit turne	Model	Quantitu	Voltage group		
Unit type	woder	Quantity	5 V	24 V	
CPU Unit	CJ1G-CPU45H	1	0.910 A	-	
I/O Control Unit	CJ1W-IC101	1	0.020 A	-	
Basic I/O Units	CJ1W-ID211	2	0.080 A	_	
(Input Units)	CJ1W-ID231	2	0.090 A	_	
Basic I/O Units (Output Units)	CJ1W-OC201	2	0.090 A	0.048 A	
Special I/O Unit	CJ1W-DA041	1	0.120 A	_	
CPU Bus Unit	CJ1W-CLK23	1	0.350 A	-	
Current consumption	Total		0.910 + 0.020 + 0.080 × 2 + 0.090 × 2 + 0.090 × 2 + 0.120 + 0.350	0.048 A × 2	
	Result		1.92 A (≤ 2.8 A)	0.096 A (≤ 0.4 A)	
Devier concurrentian	Tota	ıl	1.92 × 5 V = 9.60 W	0.096 A × 24 V = 2.304 W	
Power consumption	Result		9.60 + 2.304 = 11.904 W (≤ 14 W)		

Note: For details on Unit current consumption, refer to Ordering Information.

Using the CX-Programer to Display Current Consumption and Width

CPU Rack and Expansion Rack current consumption and width can be displayed by selecting Current Consumption and Width from the Options Menu in the CS/CJ/CP Table Window. (The width can be displayed for the CJ/CP Series only.) If the capacity of the Power Supply Unit is exceeded, it will be displayed in red characters. For details, refer to the CX-Programmer Operation Manual (Cat. No. W446).

Example:



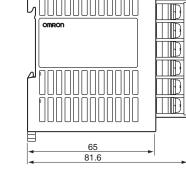
CJ1W-PA/PD

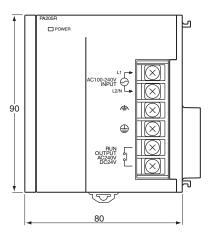
Dimension

(Unit: mm)

CJ1W-PA205R

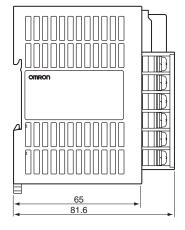


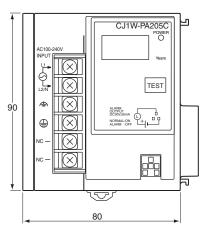






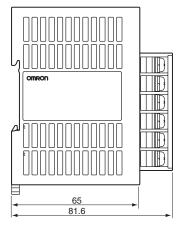


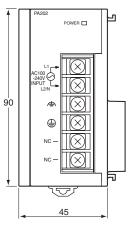




CJ1W-PA202



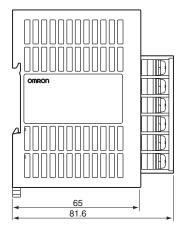


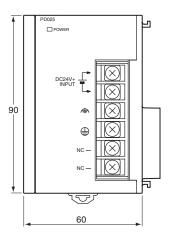


9

CJ1W-PD025

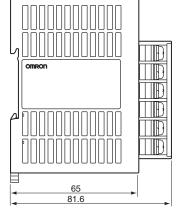


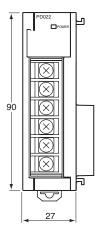




CJ1W-PD022







Related Manuals

Cat. No.	Name	Contents
W393	SYSMAC CJ Series CJ1H-CPU H-R, CJ1G/H-CPU H, CJ1G-CPU P, CJ1G-CPU CJ1M-CPU Programmable Controllers Operation Manual	Provides an outlines of and describes the design, installation, maintenance, and other basic operations for the CJ-series PLCs.

Terms and Conditions of Sale

- Offer: Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "<u>Products</u>") by Omron Electronics LLC and its subsidiary companies ("<u>Omron</u>"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other
- documents which are inconsistent with, or in addition to these Terms. <u>Prices: Payment Terms.</u> All prices stated are current, subject to change with-out notice by Omron. Omron reserves the right to increase or decrease prices 2. on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice.
- Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms З.
- and (ii) Buyer has no past due amounts. Interest. Omron, at its option, may charge Buyer 1-1/2% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the 4 stated terms
- Orders. Omron will accept no order less than \$200 net billing.
- Governmental Approvals. Buyer shall be responsible for, and shall bear all 6 costs involved in, obtaining any government approvals required for the impor-tation or sale of the Products.
- Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Omron or required to be collected directly or 7. indirectly by Omron for the manufacture, production, sale, delivery, importa-tion, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Omron.
- Financial. If the financial position of Buyer at any time becomes unsatisfactory 8. to Omron, Omron reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise secondly with these Terms or any related agreement, Omron may (without liabil-ity and in addition to other remedies) cancel any unshipped portion of Prod-ucts sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid ecounts. unpaid accounts.
- Cancellation; Etc. Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
- 10. Force Majeure. Omron shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- <u>Shipping: Delivery</u> Unless otherwise expressly agreed in writing by Omron:
 a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship except in "break down" situations.
 - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer; c. All sales and shipments of Products shall be FOB shipping point (unless of
 - erwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid; d. Delivery and shipping dates are estimates only; and e. Omron will package Products as it deems proper for protection against nor-
- and handling and extra charges apply to special conditions.
 <u>Claims</u>. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original trans-portation bill signed by the carrier noting that the carrier received the Products from Omron in the candition claims of the products of the product of the products of the product of the from Omron in the condition claimed.
- Warranties. (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed 13 (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

Certain Precautions on Specifications and Use

- Suitability of Use. Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, 1. Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a (i) Outdoor use, uses involving potential chemical contamination must be given:
 (ii) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.

 (ii) Use in consumer products or any use in significant quantities.
 (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equip-(iv) Systems, machines and equipment that could present a risk to life or prop-erty. Please know and observe all prohibitions of use applicable to this Product

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO

ITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Omron further disclaims all warranties and responsibility of IN ISNDED USE. Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or oth-erwise of any intellectual property right. (c) <u>Buyer Remedy</u>. Omron's sole obli-gation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsi-ble for warapty consisting the non-the complex of the non-complying Product the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Compa-nies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty See http://www.omron247.com or contact your Omron representative for published information

- lished information. Limitation on Liability: Etc. OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted. Indemnities. Buyer shall indemnify and hold harmless Omron Companies and their employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim inves-
- 15 expenses (including attorney's fees and expenses) related to any claim, inves-tigation, litigation or proceeding (whether or not Omron is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Omron and defend or setthe any action brought against such Companies to the extent based on a claim that any Product made to Buyer specifications infringed intellectual property
- that any Product made to buyer specifications immiged interfectual property rights of another party. <u>Property: Confidentiality.</u> Any intellectual property in the Products is the exclusive property of Omron Companies and Buyer shall not attempt to duplicate it in any way without the written permission of Omron. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Omron. All information and materials supplied to the Products are confidential and proprietary. 16 by Omron to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly
- Export Controls. Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (iii) sale of products to 17 "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of regulated technology or information. <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Omron in exercising any right
- 18 <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Omron's written consent. (c) <u>Law</u>. These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law princi-ples). (d) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing signed by the parties. (e) <u>Severability</u>. If any provi-sion hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) <u>Setoff</u>. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (a) Definitions. As used against the amount owing in respect of this invoice. (g) <u>Definitions</u>. As used herein, "<u>including</u>" means "including without limitation"; and "<u>Omron Compa-nies" (or similar words) mean Omron Corporation and any direct or indirect</u> subsidiary or affiliate thereof.

ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROP-ERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

- 2.
- Programmable Products. Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof. <u>Performance Data</u>. Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitabil-ity and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application require-ments. Actual performance is subject to the Omron's Warranty and Limitations of Linbility. 3. of Liability.
- <u>Change in Specifications</u>. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our pracchanged at any time based on improvements and other reasons. It is our prac-tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product. <u>Errors and Omissions</u>. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clarical typographical or proofreading errors or omissions.
- for clerical, typographical or proofreading errors or omissions.

OMRON

OMRON ELECTRONICS LLC • THE AMERICAS HEADQUARTERS • Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE Toronto, ON, Canada • 416.286.6465 • 866.986.6766 www.omron247.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ELECTRONICS MEXICO SA DE CV • HEAD OFFICE Apodaca, N.L. • 52.811.156.99.10 • 001.800.556.6766 • mela@omron.com OMRON ARGENTINA • SALES OFFICE Cono Sur • 54.11.4783.5300

OMRON CHILE • SALES OFFICE Santiago • 56.9.9917.3920

OTHER OMRON LATIN AMERICA SALES 54.11.4783.5300

OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 www.industrial.omron.eu

CSM_CJ1W-PA_PD_DS_E_3_1 07/10

Note: Specifications are subject to change.

© 2010 Omron Electronics LLC