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## PRESS RELEASE



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### **Universal Analog Input Module for CJ-Series PLCs Offers 18 Bit Resolution and Industry's First 0.001 °C Temperature Resolution**

SCHAUMBURG, IL (May 2008) –Omron Electronics LLC ([www.omron247.com](http://www.omron247.com)) has solved the problem of how to get high-precision analog control on a PLC that is comparable to standalone systems and dedicated devices. The new 4-point universal analog input module CJ1W-PH41U introduces the industry's first PLC-based analog input module with temperature resolution to 0.001 degree Celsius. The module for Omron's compact CJ-Series modular PLC accepts 28 different types of inputs, simplifying inventory control and maintenance. Conversion speeds of 5ms are possible and are set automatically based on the selected resolution to simplify setup. The inputs are isolated to prevent unwanted current paths that can interfere with data integrity.

The Present Value (PV) can be scaled in any industrial units and is automatically calculated in the module. Offset compensation is possible for adjusting to process value errors. Rate-of-change calculation can be set from 1 to 16 seconds, allowing even a small rate of change to be detected. Peak and bottom detection detect the maximum and minimum values. Other built-in features are: Alarm hysteresis, Mean value Processing and Alarm on-delay setting. The selection of input type can be set separately for each of the four inputs. Universal inputs offer 28 different process input choices from: Resistance thermometer: Pt100 (JIS, IEC 3-wire),

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JPt100 (3-wire), Pt1000, (3-wire), Pt100 (JIS, IEC 4-wire), Thermocouple: K, J, T, E, L, U, N, R, S, B, WRe5-26, PLII, Current: 4 to 20 mA, 0 to 20 mA, Voltage: 1 to 5 V, 0 to 1.25 V, 0 to 5 V, 0 to 10 V,  $\pm 100$  mV,  $-1.25$  to  $1.25$  V,  $-5$  to  $5$  V,  $-10$  to  $10$  V, Potentiometer:

Typical applications are:

- Electrical parts equipment - Requiring high-speed, high precision applications.
- Pharmaceutical/ Chemical - Dosing control, packaging, cryogenic freezing
- Food & Beverage Equipment - Washing, sorting, slicing, packaging & baking.
- Semiconductor Manufacturer – Require high precision applications.
- Fermentation equipment - Requiring temperature, pressure, flow-rate, and pH control.
- Testing devices - Frequently change setting conditions and program settings.

The CJ1W-PH41U is currently available from stock, and is priced at \$1099.

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Omron Electronics LLC is a leading manufacturer and provider of industrial automation products and solutions. Offering complete automation connectivity, extensive product groups include machine vision systems, programmable controllers, sensors, operator interfaces, RFID systems, timers, counters, servo motors and drives, and software. Omron also provides data collection, inspection systems, motion systems and automation systems services and products. Omron Electronics LLC is the Americas subsidiary of Omron Corporation, a \$7 billion global leading supplier of reliable, advanced electronics and control system components and services.