



## Universal Analog Input Module CJ1W-PH41U Offers 18 Bit Resolution for Omron CJ1 PLCs

A single module with up to 18 bit resolution that accepts 28 different types of inputs, including thermocouple, platinum resistance thermometer, analog signal (e.g. 4 to 20 ma, 1 to 5 V, etc.) and potentiometer inputs.



### Key Features and Benefits

- **High Resolution** – Select resolutions up to 18 bit (1/256,000)
- **Industry’s first thousandth Deg C range** – 0.000 to 50.000 Deg C selection possible
- **5 ms Conversion Speeds Possible** – Conversion speeds are automatically set depending on the resolution
- **Universal Inputs, 28 Different Choices** - The input type is set separately for each input. Resistance thermometer: Pt100 (JIS, IEC 3-wire), 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
- **Isolated Inputs** - Isolation between channels prevents unwanted current paths.
- **Scaling** – The PV can be scaled in any industrial units and transferred automatically to the CPU.
- **Offset Compensation** - Offset compensation is possible for process value errors.
- **Process Value Alarm** - 4-point alarm (HH, H, L, and LL limits) is possible for the process value.
- **Rate-of-change Calculation and Alarm** - The rate of change value is derived by taking the difference each second between the process value at that time and the process value before the comparison time interval. The comparison time interval can be set from 1 to 16 seconds. This allows even a small process value rate of change to be detected.
- **Peak and Bottom Detection** - This function detects the maximum and minimum values.
- **Alarm Hysteresis, Mean Value Processing and Alarm-ON Delay** - Values can be set.

### Target Markets and Applications

- **Electrical parts equipment** - Requiring high-speed, high precision applications.
- **Pharmaceutical/ Chemical** - Dosing control, packaging, cryogenic freezing
- **Food & Beverage Equipment Manufacturer** - 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.

### Ordering Information

Description	Part Number
4 Pt. Hi Res Universal Analog Input Module	CJ1W-PH41U

### Documentation

Product	Description	Catalog Number
Manual (PDF)	Analog I/O Operation Manual	W368

CJ1W-PH41U HI RES ANALOG



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