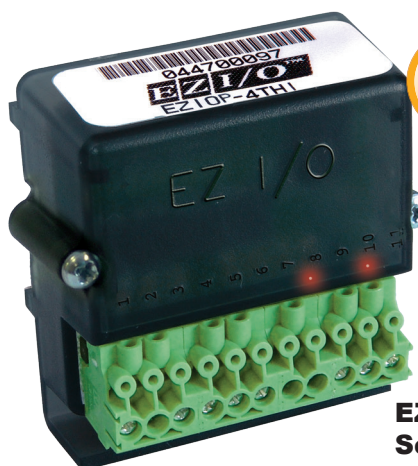




# Thermocouple Input Module

## with broken wire detection

| Module Specifications      |   |
|----------------------------|---|
| Number of Channels         | 4, differential   |
| Common Mode Range          | -1.5 VDC to +4.0 VDC  |
| Common Mode Rejection      | 100dB min. @ VDC<br>50/60Hz   |
| Input Impedance            | 5MΩ   |
| Absolute Maximum Ratings   | Fault-protected inputs to<br>±50 VDC  |
| Accuracy vs. Temperature   | ± 15ppm/°C max.<br>0-1.25V ±35 ppm/°C max.<br>(including max. offset<br>change) |
| PLC Update Rate            | 4 channels per scan   |
| Base Power Required        | 10mA @ 3.3 VDC supplied<br>by base  |
| Operating Temperature      | 32° to 140°F (0° to 60°C)   |
| Storage Temperature        | -4° to 158°F (-20° to 70°C)   |
| Relative Humidity          | 5 to 95% (non-condensing)   |
| Environmental Air          | No corrosive gases<br>permitted   |
| Vibration                  | MIL STD 810C 514.2  |
| Shock                      | MIL STD 810C 516.2  |
| Noise Immunity             | NEMA ICS3-304   |
| Replacement Terminal Block | EZIO-TERM11CJC<br>(comes with CJC)  |



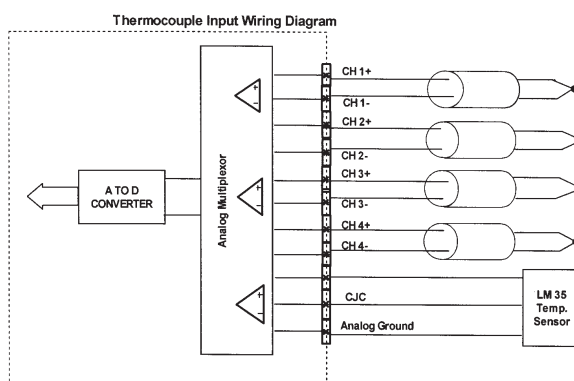
**EZIOP-4THIE**  
**\$179**

Delivery  
Code  
**3DAY**

**EZIOP-4THIE**  
**Screw-down**

| Pinout Information |                      |
|--------------------|----------------------|
| Pin No.            | 4 Thermocouple Input |
| 1                  | CHAN1 + ( Input)     |
| 2                  | CHAN1 - ( Input)     |
| 3                  | CHAN2 + ( Input)     |
| 4                  | CHAN2 - ( Input)     |
| 5                  | CHAN3 + ( Input)     |
| 6                  | CHAN3 - ( Input)     |
| 7                  | CHAN4 + ( Input)     |
| 8                  | CHAN4 - ( Input)     |
| 9                  | + 5 VDC              |
| 10                 | Vout ( Temp. Sensor) |
| 11                 | Analog GND           |

**Terminal Block**  
**300 Volt/10 Amp/14AWG**  
**UL Rating**



| Thermocouple Specifications  |  |
|------------------------------|--|
| Input Ranges in C            | Type J -40 to 340°C<br>Type K -80 to 450°C<br>Type S 25 to 720°C<br>Type T -180 to 330°C |
| Display Resolution           | Type J,K,T ± 0.1°C; Type S ± 1°C   |
| Cold Junction Compensation   | Automatic  |
| Conversion Time              | 1ms per channel  |
| Warm-Up Time                 | 30 minutes typically<br>± 1°C repeatability  |
| Linearity Error (End to End) | ± 1°C max. ± 0.5°C typical   |
| Maximum Inaccuracy           | ± 3°C (excluding thermocouple error)   |

## \* IMPORTANT

This module requires an EZPLC with Firmware Revision **B.0** or Later.

### To check the firmware revision of your EZPLC:

Using the EZPLC Editor Software access the menu item **EZPLC > INFORMATION...** a window will open displaying the current **EXEC Software** and **BOOT Software** revisions.

### To upgrade the firmware:

Download firmware at [www.EZAutomation.net](http://www.EZAutomation.net) (downloads section). Once downloaded, use EZPLC editor and select **Setup>Upgrade Firmware** menu item.

**For EZ-LINK cables and Terminal boards look at page 4-5**