

Allen-Bradley 1762-IT4 Manual

Brand	Allen-Bradley
Product Series	1746 1747
Product Type	Input Filtering Programmable Notch Filter

Description

The Allen-Bradley 1762-IT4 is a MicroLogix 1200 analog input module. This module is a Thermocouple and millivolt input module that features Four (4) channels plus CJC sensor compatible with Thermocouple sensors J, K, T, E,R, N, S, B, and C. and accepts +/- 50mV and +/-100mv signals. It has 15 bit resolution (plus sign) utilizing Sigma-Delta conversion method. It comes with selectable

Technical specifications for 1762-IT4

4 Compatible Controllers:

Manufacturer Rockwell Automation

Converter Type Delta-Sigma

Part Number/Catalog No. 1762-IT4

Brand Allen-Bradley

Product Description: Thermocouple input module

Number of Inputs: Four (4)

Compatible Thermocouple sensors: Type J, Type K, Type T, Type E, Type R, Type S, Type B, Type N, and Type C

Compatible millivolt signals: -50/-100mV and +50/+100mV

Module resolution: 15-bits

Filter frequency: 10 Hz; 50 Hz; 60 Hz; 250 Hz; 500 Hz; 1 kHz

Channel update time: 303 ms; 63 ms; 53 ms; 15 ms; 9 ms; 7 ms

Enclosure Open-type

Mounting: DIN Rail

Operating Temperature: 0 to 55 C (32 to 131 F)

Storage Temperature: -40 to 85 C (-40 to 185 F)

Vibration: 5g @ 10 to 500 Hz

Operating Shock: 30 g

Manufacturer Rockwell Automation

Product Line MicroLogix 1200

Part Number/Catalog No.

Module Type Thermocouple/mV Input

1762- IT4 Product Family:

Inputs 4 Channels plus 1 CJC Sensor

MicroLogix 1200 Product Type:

Input Filtering Programmable Notch Filter

Thermocouple / millivolt Input Module No. of Inputs:

Calibration Autocalibrates

MicroLogix 1200 Sensors supported:

Power Supply Distance Rating 6

J, K, T, E, R, N, S, B, N, C millivolt signal:

Heat Dissipation 1.5 Total Watts

+/- 50mV and +/-100mV CJC sensor:

Dimensions 3.54 inch x 3.43 inch x 1.58 inch

Included Module Resolution

UPC 10611320861669

15-bits plus sign Converter type

Delta-Sigma Current draw @ 5.1V:

40 mA Current draw @ 24V:

50 mA Heat dissipation, max:

1.5W Calibration:

Performed during power-up; programmable CJC sensor accuracy:

± 1.3 degrees C (± 2.54 degrees F) Description

The Allen-Bradley 1762-IT4 is a MicroLogix 1200 analog input module. Specifically, this module is a Thermocouple Input module that is especially designed for use in Temperature application and direct measurement of transducers. It accepts a wide variety of Thermocouple sensor types including type J, K, T, E, R, N, S, B, and C. It is also equipped with a Cold Junction Compensator (CJC) for increasing the accuracy of the module. Aside from Thermocouple sensors, direct wiring of analog mV signals such as ± 50 mV and ± 100 mV signals are accepted by this module. The 1762-IT4 can be used in Temperature applications with measuring range of -210 Degree Celsius to 2315 Degree Celsius (-346 to 4199 Degree Fahrenheit). Up to Four (4) Thermocouple sensors can be wired to this module which converts the received signals to a 15 bit (plus sign) resolution of data which can then be configured for engineering units x 1; engineering units x 10; scaled-for-PID; percent of full-scale and raw/proportional data formats. Each module channel has configurable filter frequencies which can be used to stabilize reading and eliminate fluctuations. Selectable frequencies include 10 Hz, 50 Hz, 60 Hz, 250 Hz, 500 Hz and 1000 Hz. Input channels are terminated with signal wires following differential input wiring. The 1762-IT4 is mounted beside the MicroLogix 1200 controller or another MicroLogix 1200 I/O module. It follows standard DIN rail mounting and lock onto place via the snap-on level located on top of the module. Cables for use with this module must be appropriate for the type of sensor being used. For wiring of mV signal, recommended wire is Belden 8761.

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Converter Type Delta-Sigma

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Number of Inputs: Four (4)

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Compatible millivolt signals: -50...50 mV and -100...100 mV

Module resolution: 15-bits

Filter frequency: 10 Hz; 50 Hz; 60 Hz; 250 Hz; 500 Hz; 1 kHz

Channel update time: 303 ms; 63 ms; 53 ms; 15 ms; 9 ms; 7 ms

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1762- IT4 Product Family:

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www.AutoDCSTech.com

MicroLogix 1200 Product Type:
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