

Allen-Bradley 1771-IL

The Allen-Bradley 1771-IL is a PLC5 isolated analog input module that is compatible for installation with any 1771 I/O chassis. This module has Eight (8) fully isolated differential input channels configurable for Voltage and Current signal ranges such as 1 to 5V dc, 0 to 5V dc, -5 to +5V, -10 to +10V dc, 0 to 10V dc, 4 to 20mA, 0 to 20mA, and -20 to +20mA. This module is used with Block transfer Technical specifications for 1771-IL

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1771-IL

Number of Inputs & Outputs 8 Isolated (1000 Volt) Differential

Module Type Analog Input

Chassis Compatibility Any chassis

Channel Update/Resolution 500 ms/8 channels; 15 bits + sign

No. of I/O 8 Differential

Data Format Natural Binary or BDC Scaling to +/- 9999

Resolution 16-bit binary over full range

Backplane Current 1.3 Amperes

Accuracy Voltage: Typical - 0.01% of full scale range @ 25oC Maximum - 0.05% of full scale range

@ 25oC Current: Typical - 0.06% of full scale range @ 25oC Maximum - 0.1% of full scale range @ 25oC (Includes 0.05% when using internal current resistor)

External Power Required No

Internal Scan Rate 50 milliseconds for 8 channels

Voltage Range -10 to 10 Volts DC

Model Status Earlier Model

Wiring Arm 1771-WG

Current Range -20 to 20 mA

Typical AC Signal Delay (Off) 24 (+/- 10) ms

Typical DC Signal Delay (Off) 20 (+/- 9) ms

Mounting Rack Mountable

Slot Width 1 Slot

UPC 10612598141620 Description

The Allen-Bradley 1771-IL is an analog input module with Eight (8) fully isolated differential input channels. This module belongs to the legacy PLC5 Programmable Logic Controller (PLC) platform that is manufactured by Allen-Bradley. This module is compatible for use with instruments that provides voltage and current signals. Specifically, signal range supported by this controller are 1 to 5V dc, 0 to 5V dc, -5 to +5V, -10 to +10V dc, 0 to 10V dc, for Voltage and 4 to 20mA, 0 to 20mA, and -20 to +20mA for Current signals.

Once an analog input signal is received, the 1771-IL converts the signal to 0000 to +409510 for

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unipolar ranges (0 to 5V, +1 to +5V, 0 to +20mA, and +4 to +20mA) and -409510 to 409510 for bipolar ranges +5V, +10V, +20mA input ranges. Unipolar refers to a value where counting start at Zero (0). Bipolar refers to a value wherein the maximum positive number has a negative complement. Basically, a unipolar number has no sign while a bipolar number has a sign. This module features 16-bit binary over full range resolution.

The Typical accuracy for Voltage is - 0.01% of full-scale range @ 25 Deg. Celsius while Maximum resolution is 0.05% of full-scale range @ 25 Deg. Celsius. For Current, Typical resolution is 0.06% of full- scale range @ 25 Deg. Celsius while the Maximum resolution is 0.1% of full scale range @ 25oC (Includes 0.05% when using internal current resistor)

The 1771-IL has an integral open circuit detection, Input overvoltage protection and an Auto-Calibration capability.



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