

Allen-Bradley 1771-IFE

The Allen-Bradley 1771-IFE is a PLC5 analog input module that is compatible for installation with any 1771 I/O chassis. This module has Sixteen (16) Single-ended channels or Eight (8) Differential input channels. Each channel are configurable for input Voltage and Current signal ranges of 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

Technical specifications for 1771-IFE

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1771-IFE

I/O 8 Differential or 16 Single-Ended

Module Type Analog Input

Chassis Compatibility Any chassis

Channel Update/Resolution 18 milliseconds/8; 36 milliseconds/16

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

Resolution 12-bit binary; 12 bits plus sign on bipolar ranges

Accuracy 0.1% of full scale range @ 25oC

External Power Required No

Internal Scan Rate 12.5 ms for 8 differential inputs (no digital filtering) -add 2.12ms for filtering

25 ms for 16 single-ended input (no digital filtering) -add 4.24 for filtering

Voltage Range -10 to 10 Volts DC

Typical DC Signal Delay (On) 10 milliseconds

Current Range -20 to 20 mA

Wiring Arm 1771-WG

Typical AC Signal Delay (Off) 24 milliseconds

Backplane Current 750 miliAmperes External

Typical DC Signal Delay (Off) 20 milliseconds

Mounting Rack Mountable

Slot Width 1 Slot

UPC 10612598002211 Description

The Allen-Bradley 1771-IFE is a PLC5 Analog Input Module. This module interfaces analog inputs with PLC processors using block transfer programming. It uses a 16-bit resolution and performs the required analog-to-digital conversions and vice versa to interface analog signals with PLC data table values. If input communication is disrupted, it can respond automatically to the fault with the default user configuration. Thus, it provides a predictable and safe response to a fault and limits the extent of the fault. The 1771-IFE is compatible for use in various applications such as Temperature, Pressure, Level, Flow, and other applications. It contains Sixteen (16) single-ended or Eight (8) differential selectable inputs. It has Natural Binary or BCD scaling to a +/-9999 data format. It has a voltage range of -10 to 10 Volts DC and a current range of -20 to 20 mA. It has a backplane current load of 750 mA and a channel update time of 8 milliseconds for 8 channels, 36

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milliseconds for 16 channels, and 12 bits plus sign resolution. The 1771-IFE has a maximum power dissipation of 2.5 Watts and a thermal dissipation of 8.52 BTU/hour. It comes with a 1771-WG wiring arm to replace the module, eliminating the need to disconnect wiring. It requires one slot for installation in an I/O chassis and keying bands for correct installation is between pins 10 and 12 for the lower connector and pins 24 and 26 for the upper connector. The 1771-IFE module contains a green RUN and a red FAULT indicator light on the front panel. It contains optoelectrical isolation to protect the system circuits from electrical transients. It also contains an input filtering feature to reduce electrical noise.

The Allen-Bradley 1771-IFE is an analog input module that is manufactured by Allen-Bradley for use with the legacy PLC 5 Programmable Logic Controller family. This module features channel flexibility with Sixteen (16) Single-ended inputs or Eight (8) Differential inputs. This module has a wide variety of input signal selection such as 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.

This module is used to enable measurement of Process Variables (PV) such as Pressure, Level, Flow, Temperature, Speed, Viscosity, Turbidity, pH, Vibration, Displacement and many other parameters that may be represented by the selectable input signals. This module converts the receive signal to a proportional four-digit BCD or twelve-bit binary value.

Aside from this conversion, this analog input module is provided with configuration parameters such as real-time sampling that is used to regulate the sampling-time and lessen fluctuations, digital filtering used to cancel out noise or interference present in the signal wiring, scaling to engineering units to properly display the converted data to usable values and measurements, data format to assign conversion format to the received signal. This module is compatible for installation to any PLC5 chassis and available slot.

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