

Allen-Bradley 1771-IFF

The Allen-Bradley/Rockwell Automation 1771-IFF input module is a PLC 5 series analog input module. It uses block transfer programming to interface between different kinds of analog input devices and PLC processors. The 1771-IFF analog input module can support either 8 differential selectable inputs or 16 single-ended inputs at a time. It does not require an external power supply for Technical specifications for 1771-IFF

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1771-IFF

Module Type Analog Input

Number of Inputs & Outputs 8 Differential Selectable or 16 Single-Ended Selectable

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

Channel Update/Resolution 5 ms/8 channels; 10 ms/16 channels; 12 bits + sign

Voltage Range 0-5 V dc, 1-5 V dc, +/- 5 V dc, +/- 10 V dc

Current Range 4-20 mA, 0-20 mA, +/- 20 mA

Backplane Current 750 Milliampere

External Power Required No

Wiring Arm 1771-WG

Coating Conformal Coat

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

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

Mounting Rack Mountable Description

The Allen-Bradley 1771-IFF is a PLC 5 Analog Input Module. It interfaces analog inputs with PLC processors by using block transfer programming. The 1771-IFF uses up to 16-bit resolution and performs analog-to-digital conversions and the reverse conversions for interfacing analog signals with the PLC data table values. If input communication is disrupted, it can respond automatically to the fault with default user configuration. Thus, it provides a predictable and safe response to a fault and limits the extent of faults. The 1771-IFF is useful for applications such as temperature sensing, pressure sensing, level sensing, and flow metering. The 1771-IFF Series A module has 16 single-ended or 8 differential selectable inputs. It has Natural Binary or BCD scaling to ± 9999 data format. It has voltage ranges of 0 - 5V DC, 1 - 5V DC, -5 - 5V DC, and -10 - 10V DC. It has a current range of 4 - 20mA, 0 - 20mA, -20 - 20mA, and -40 - 40mA. Its backplane current load is 750mA. The 1771-IFF has a channel update time of 5ms for 8 channels, 10ms for 16 channels, and 12 bits plus sign resolution. It has a maximum power dissipation of 2.5W and thermal dissipation of 8.52 BTU/hr. It has a 1771-WG wiring arm to replace the module eliminating the need to disconnect wiring. The 1771-IFF 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-IFF module contains a green RUN and a red FAULT indicator light on the front panel. It has optoelectrical isolation to protect

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the system circuits from electrical transients. The 1771-IFF also has input filtering feature for reducing electrical noise.



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