IC610MDL166

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Analog Output
IC610MDL166

Introduction

The Analog Output module provides two independent output channels, each capable of converting 8 bits of binary data to an analog output. This module can be used with any of the Series One family of programmable controllers. The Series One Plus, in addition to the basic functions, provides data operations (including math functions), which allows other types of operations to be performed when using the analog output module. Each Analog Output module requires 16 I/O references for addressing.

Although this module can be used with the Series One and Series One Junior, in addition to the Series One Plus, certain programming techniques will make better use of the capabilities of the Analog Output module with these PCs. An APPLICATION NOTE will be issued explaining those techniques in detail.

Hardware Features

Each channel can provide either a voltage output (0 to +10 V dc) or current output (4 to 20 mA source). Voltage or current selection for each channel is user selected by how the field wiring is connected on the screw terminals on the faceplate. Resolution is 8 bits, which allows a maximum digital value of 255 to be converted. Eight LEDs for each channel on the faceplate provide an 8-bit binary display of the data output for each channel.

User field wiring is made to a removable terminal board on the module's faceplate. A hinged plastic terminal cover on the terminal board protects the terminals. The terminal cover has a removable label that can be used to record circuit information.

The maximum conversion time is 10 microseconds and does not add to the scan time of the CPU. Both channels are converted with each scan.

Power Requirements

This module requires an external 24 V dc power supply. The 24 V dc supply in Series One racks can be used, however the current provided by the rack is 100 mA, which is sufficient current for one Analog Output channel, since the module requires up to 85 mA for operation. The maximum load for both channels is 170 mA.

General and Electrical Specifications

Specifications for this module are provided in the following table.