The M221 Logic Controller

M221 Logic Controllers

The M221 Logic Controller is a small, low-cost controller for simple machine applications. AM221 Logic Controllers are powered by either 24VDC or 100-240VAV and have a modular design allowing the addition of further analog, digital and specialised I/O.

They are fitted with one or two RJ10 connector serial ports and a USB port for application transfer.

A SD card slot is located under the central cover to allow data transfers and firmware update via SD card.

Information and diagnostic LEDs are also fitted on the front panel.

Common Components

There are several common options or components that are present on all M221 Logic Controllers.

➢ Serial Port for data transfer
➢ USB connector for programming
➢ 2 independent 0-10V Analog Inputs
➢ SD Card slot for data transfer
➢ LED Information display
➢ On-board I/O
➢ High speed counter inputs
➢ I/O Expansion

The internal workings of all M221 Logic Controller are also basically the same with just a few different components for the options. This means that the performance will be the same across the entire M221 product range.

The M221 Logic Controller (cont.)

Optional Components

There are a number of options for the M221 Logic Controller.

➢ A range of input and output combinations

➢ 0.1A transistor outputs or 2A relay outputs

➢ Ethernet connection for programming and data transfer

➢ Removable terminal block or HE10 connector

➢ Screw or spring connectors for the removable terminal blocks

➢ Pulse generator to provide pulsed or Pulse Width Modulation (PWM) control

Some are exclusive, for example the 16 input/16 output units can only be supplied with transistor outputs.

For a full list of available units and options, see *Chapter 2 - M221 Hardware*.

I/O Expansion

The M221 comes with some I/O built-in but this may not be enough to meet the needs of the application.

If more I/O is required, expansion modules can be added to the M221 Logic Controller to provide more I/O. These expansion modules can be either the existing TM2 modules or a new range of TM3 modules. Modules can be either digital or analog and provide additional inputs, outputs or a combination of both.

Compatibility with the TM2 range of I/O means that it is very easy to replace a Twido with a M221 Logic Controller.