PMV4 - PROPORTIONAL SOLENOID MODULE

PLC SYSTEMS MULTICONTROL COMPONENTS







PMV4

- Controlling Proportional Solenoids (4 channels) and Adjustable Pumps (2 channels)
- Controlled by Processor on the Module
- Communication with PLC via 2 KBytes Dual Port RAM
- Four Analog Inputs (0 10 V)
- Four Analog Inputs (0 20 mA)
- Two Digital Inputs (24 V)
- RS232/TTY Interface

SLOTS

The proportional solenoid module PMV4 can be operated in the following slots on the MULTI, MIDI and M264 racks.

| Rack | Slot | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Α | В | С | D | Ε | F |
|---|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MULTI Main Rack MULTI Expansion Rack MIDI M264 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | Ó | Ó | Ó | | | | |
| the module can be operated in this slot the module cannot be operated in this slot | | | | | | | | | | | | | | | | | |

ORDER DATA

GENERAL INFORMATION

The PMV4Proportional Solenoid Moduleis used for controlling proportional solenoids (4 channels) and adjustable pumps (2 channels). It is controlled by a processor on the module which lightens the load on the CPU. The communication with the CPU takes place via 2 KBytes of dual port RAM.

The module is supplied with $9-36\ VDC$. The module provides four analog inputs $0-10\ V$, four analog inputs $0-20\ mA$ and two digital inputs with period evaluation for measuring motor speed.

The module is equipped with am RS232/TTY interface. This interface is required for the development software. During operation, it can be used to control an operator panel.

| ECHNICAL DATA | PMV4 |
|---|---|
| Processor | MC68332 |
| Frequency | 16.78 MHz |
| PROM | 128 KByte |
| SRAM | 286 KByte |
| Flash PROM | |
| Serial Interface Type Electrical Isolation | RS232 / TTY (MCOx - IF1 compatible) NO |
| PMV Outputs Function Principle Supply Voltage Nominal Minimum Maximum Amount Output Current 4 Channel Operation Output Current 2 Channel Operation Short Circuit Protection Overload Protection Voltage Drop at 2 A Switching Frequency Switching State (off, control area, of Idle Current Precision at 25 °C - for 2 A Maximum Current | n Max. 2 A Automatic cutoff Software Max. 1 V at 100 % 3 kHz |
| Analog Inputs (voltage) Amount Voltage Range Resolution Precision Precision at 25 °C Offset Drift Gain Drift Compensation | 4 0 - 10 V 10 Bit ±0.2 % ±12 ppm/°C ±75 ppm/°C Software controlled by correction value in the EEPROM |
| Analog Inputs (current) Amount Current Range Resolution Precision Precision at 25 °C Offset Drift Gain Drift Compensation | 4 0 - 20 mA 10 Bit ±0.2 % ±60 ppm/°C ±155 ppm/°C Software controlled by correction value in the EEPROM |
| Digital Inputs Amount Input Voltage Minimum Nominal Maximum Maximum Peak Voltage Input Resistance Input Current at 24 VDC Switching Threshhold Electrical Isolation Switching Delay log. 1 → log. 0 log. 0 → log. 1 | 2 15 VDC 24 VDC 36 VDC 4500 V for 50 μsec, every 100 msec (IEC60-2) Approx. 10 kΩ Approx. 2.4 mA Min. 4.2 VDC, typ. 6.6 VDC, Max. 9 VDC YES Min. 20 μsec, typ. 55 μsec, Max. 90 μsec Min. 18 μsec, typ. 54 μsec, Max. 90 μsec |

Inputs are controlled by the TPU

Duration and frequency measurement are possible

Other Information