Field Control Layer Device ElMnet Analog I/O Expansion Module

[Description]

EIM..M series of analog I/O expansion module is a remote control unit follows the format of MODBUS RTU communication rule, the main purposes is increasing I/O points for AIRTEK DDC. It works with any controller which has an EIMnet port. EIM..M uses 32-bit microprocessor core, transmission rate up to 38,400 bps. Theirs analog input points have 12-bit resolution which provides high accuracy reading value. Theirs analog output points also have 12-bit resolution which can make a precise control. The physical points of EIM can be directly converted to DDC's AI / AO points. Therefore, setting or transfer of these I/O points is not required. The controller can use these points directly. EIM..M makes the arrangement of control points flexible, save money, and helps to control all related control points in a single program. It is absolutely the best product for your building.



[Features]

- An AIRTEK RS-485 communication interface works with any AIRTEK controller that has an EIMnet port.
- Analog Input (AI) has 12-bit resolution, can be jumper selectable to accept 3KΩ or 10KΩ NTC thermistor,
 0, 10/DC, or 4, 20m A input signal.
- 0~10VDC, or 4~20mA input signal.
- Analog Output (AO) has 12-bit resolution, EIM0402M can be DIP switch and software selected as 0~10VDC, or 4~20mA output signal, each point has a manual override/auto output control switch.
- 8 MAC Address DIP switches for address 1~127.
- It makes the arrangement of control points flexible, save money, and helps to control all related control points in a single program.
- I/O point of EIM modules are preset in controller if it has an EIMnet port. Therefore, setting or transfer is not required. The controller can use these points directly. AI/AO of EIM will be AI/AO of the controller.
- Slide track design for space-saving and easy installation.
- Plug-in terminal blocks and LED Indicators of communication and status are convenient for system debug.

Model	Power consumption	Al Points	AO Points		24VDC Out	Max. Number of EIM module on each EIMnet port	
			0~10VDC	4~20mA	DSCB	DAC.B/DSC.B Controller	WC/GC Controller
EIM0800M	6VA	8	0	0	Y		
EIM0004M	5VA	0	4	0	N	12	24
EIM0402M	6VA	4	2 (optional)		Y		

[Specification]

Power Supply : 24VAC

Microprocessor: 32 bit high speed processor (MCU).

- **Analog Input**: 12-bit resolution, jumper selectable to accept 3KΩ or 10KΩ NTC thermistor, 0~10VDC, or 4~20mA input signal.
- Analog Output: 12-bit resolution, 0~10VDC or 4~20mA output, attached a manual override/auto output control switch.

Minimum load of 0~10VDC output is 1000 ohms. The maximum load for 4~20mA is 500 ohms.

EIMnet Port: MODBUS RS-485 bus, communication speed 9,600/19,200/38,400 bps adjustable.

Auxilary Power: 24VDC, 200mA, for external sensors.

Environment: $0 \sim 50^{\circ}$ C , $5 \sim 95\%$ RH non-condensing

Certification : UL916,CE, RoHS



EIM..M



Please refer to https://www.airtekgroup.com/ for the most recent update information.