MACS Specification

Designed & made in Australia

Processor	24MHz CPU, 4K RAM, 1 to 4 Mbytes Flash data memory (build option)
Power Supply	Auto-sensing AC or DC input. 10 to 22V AC (RMS) or 10 to 31V DC. Reverse polarity protected. Onboard self-resetting fuse. Rectified power output. Onboard self-resetting fuse.
Real-time clock	Battery backed temperature compensated clock
Serial Interfaces	Two independent. Both either 5-wire RS232 or 2-wire RS-485
External Interfaces	Two sets, each consisting of : 2 LEDs, switch, switched power, iButton ReadHead. One set consisting of : 10 LEDs, 20 switches, switched power, iButton ReadHead.
Relays	5 total, 4 SPST Normally open, 1 SPDT, 100V AC/DC 10A
Digital Inputs	5 digital inputs, 4 of which can also be used as pulse counter inputs
Analogue Inputs	2, connected to internal Analogue to Digital converter
Analogue Outputs	2, connected to internal Digital to Analogue converter
Analogue Comparator	1 pair analogue comparator inputs
Temperature Sensor	Internal, range exceeds –15º to +85ºC.
Interface Protection	• All interface signals protected by 600W bi-directional protection diodes. • Relays fitted with 100V bi-directional protection diodes. • RS232 and RS485 designed for +/-15KV Human Body Model • Power input and outputs protected with 1.5A self-resetting fuses on power inputs and outputs.
In-circuit programming	Programmed through onboard J-Tag header or remotely over network
Identification Number	Unique 64-bit identification number
Case	Screen-printed aluminium 106 x 144 x 63mm maximum overall dimension excluding mounting bracket and cables
Temperature Ratings	Operating : TBA Storage : TBA
Standard Operating Modes	One or more of each of the following modes can be operated simultaneously and independently. • 1-way Gate/Door (uses 1 control panel for 1-way access through a controlled gate) • 2-way Gate/Door (uses two control panels for entry and exit through a controlled gate) • Winch controller • Car wash controller • Truckwash control (1 to 4 bays with 1 MACS unit, up to 8 bays with a 2nd MACS) • Additional modes on request. All modes can use time-based schedules, database authentication and event logging as required.