



MCS-MAGNUM-MLB-15.4-12

INDUSTRIAL CONTROL PANEL



Specifications

Certification.....UL508A

NEMA Rating – Type 1 Control Panel- IP20 Rating

Enclosure is intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment and is not protected from liquids.

Industrial Control Panel

Rated Voltage (Standard)..... 120VAC or 230VAC
‘Phase / Frequency..... 1 Phase / 60Hz
Full Load Current(approx) 40A at 120VAC or 20A at 240VAC
Short Circuit Current Rating . 10kA
Dimensions..... 22" w x 28.50" h x 8" d
Mounting Holes..... Mounts with four pre drilled
15/32" holes

Temp. Range for Control Panel & Touch Screen

Operating Temperature..... -4°F to 158°F (-20°C to 70°C)
Operating Humidity..... 0-95% Non-Condensing
Storage Temperature..... -4°F to 158°F (-20°C to 70°C)

MCS-MAGNUM Controller

Microprocessor Zilog eZ80 Acclaim! @ 50mhz
Sensor Inputs (SI)..... 12 inputs 0-5vdc (10-bit A/D)
Digital Inputs..... 4 inputs 0 or 5vdc only
Relay Outputs (RO)..... 10 outputs 6.3amps @ 230vac
Analog Outputs (AO) 4 outputs 0-10vdc
Printed Circuit Board Six layer with separate power
and ground planes
Input Power (Standard) 12 vdc Regulated Power Supply
Minimum (Brown in) 9.44 vdc
Amp Draw (Loaded) 857.0 mA
MCS-I/O Comm Port 1 @ 38,400 baud
RS-485 Comm Port 1 @ 19,200 baud
Ethernet 10/100 Mbps Ethernet
Real Time Clock Battery backup
Power Detection Automatic power fail reset

MCS-SI-BASE Expansion Board

Sensor Inputs (SI)..... 16 inputs 0-5vdc (10-bit A/D)
Analog Outputs (AO) 4 outputs 0-10vdc
MCS-I/O Comm Port 1 @ 38,400 baud

Touch Screen 15.4 - Specification

LCD Screen 15.4" Diagonal (Aspect Ratio 16:10)
Dimensions..... 17" L x 12.11" W x 3.228" H
1280 x 800 Resolution
NEMA 4 IP66 rated
Surface Treatment..... Glare/Anti-Reflection ≤1.5%
Operating Temperature..... -20°C to +65°C Operating Temperature
Operating Humidity..... 0-95% Non-Condensing
Storage Temperature..... -25°C to +70°C Storage Temperature
Motherboard-Rev 4.0 Freescale i.MX6 Dual Core 800mhz
2Gb of 512mhz DDR3 RAM memory
16Gb of eMMC Flash memory
10m/100m/1G Ethernet
1 Micro-SD Slots
2 USB Host 2.0
Real Time Clock (RTC) w/ Battery
3 RS485 communication ports

Crossover Cable (orange) .. can be used for connecting
MCS Touchscreen direct to MCS-MAGNUM or to a Laptop

Packaging

Weight 60 lbs(approx)
Box 24" x 10" x 30"

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