



MCS-MAGNUM-SB-12

INDUSTRIAL CONTROL PANEL



Part # MCS-MAGNUM-SB-12

Description

The **MCS-MAGNUM-SB-12 Industrial Control Panel*** is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with three seven-inch hinges for strength. A key lock is provided for security on the door while still giving easy access of the display and keypad.

Critical safety components manufactured by MCS and installed in this panel are UL Recognized Components under UL File #169780 and are also ROHS compliant.

The MCS-MAGNUM-SB-12 comes standard equipped with a Magnum micro controller board, Keypad/LCD, and a 20 amp circuit breaker. There is also a electrical outlet for laptop plug-in power at the panel and a Ground Bar for Sensor input shields.

Power is supplied using a MCS-12V power supply.

Options are available for all MCS-MAGNUM Control Panels with Keypads or Touch Screens. These options are factory installed by MCS at time of purchase. Visit our website for options available.

Options

MCS-RS-485-EXTENDER
Cable for extending RS-485 port to front of control panel.



-232 This adds RS-232 port on Keypad
MCS-RS-232-EXTENDER Cable for extending RS-232 port to front of control panel (only available with -232 Keypad option)

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..... 18.25" w X 19.5" h X 8" d
Mounting Holes..... Mounts with four pre-drilled 9/32" holes

TEMPERATURE RANGE Control Panel/Keypad/LCD

Operating Temp. of panel.....-4°F to +158°F (-20°C to + 70°C)
Operating Humidity0-95% Non-Condensing
Storage Temp.-22°F to +185°F (-30°C to + 85°C)

MCS-MAGNUM Controller

MicroprocessorZilog 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 BoardSix 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 Port1 @ 38,400 baud
RS-485 Comm Port1 @ 19,200 baud
Ethernet10/100 Mbps Ethernet
Real Time ClockBattery backup
Power DetectionAutomatic power fail reset

KEYPAD / LCD

Display128 x 64 dot pixel STN monochrome graphics LCD with 2.8" diagonal viewing area
ColorWhite characters on a blue background (Reversible)
Keypad Size7.25" w x 8.50" h (6 mounting studs)
Keypad Layout9 keys (3 function keys)
Connection6 conductor shielded cable
RS-485 Comm Port1 @ 19,200 baud

Packaging

Weight40 lbs(approx)
Box24" X 30" x 10"

5580 Enterprise Pkwy., Fort Myers, FL 33905

Office: 239-694-0089 • Fax: 239-694-0031 www.mcscontrols.com