



MCS-MAGNUM-NEMA-12-8 INDUSTRIAL CONTROL PANEL



Part # **MCS-MAGNUM-NEMA-12-8**

Specifications

NEMA Rating – Type 4 Panel IP66

Panel

Dimensions.....30”H x 24”W x 8”D
 Mounting Holes.....4 external wall-mount brackets
 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

Temp. Range for Panel

Operating Temperature.....-4°F to 158°F (-20°C to 70°C)
 Operating Humidity.....0-95% Non-Condensing
 Storage Temperature.....-22°F to 185°F (-30°C to 85°C)

Controller Specification

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 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
 Ethernet.....10/100 Mbps Ethernet
 Real Time ClockBattery backup
 Power DetectionAutomatic 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 Port1 @ 38,400 baud

Keypad / Lcd

Display.....128 x 64 dot pixel STN monochrome graphics LCD with 2.8” diagonal viewing area
 Color.....White characters on a blue background (Reversible)
 Keypad Size.....7.25”w x 8.50”h (6 mounting studs)
 Keypad Layout.....9 keys (3 function keys)
 Connection6 conductor shielded cable
 RS-485 Comm Port1 @ 19,200 baud
 RS-232 Comm Port1 @ 19,200 baud

Packaging

Weight60 lbs (approx)
 Box29” x 37” x 10”

Description

The **MCS-MAGNUM-NEMA-12-8** is a custom built panel made of powder coated steel for durability and longevity. It is a NEMA TYPE 4 - IP66 rating. The interior left hand swing door is mounted with three four-inch hinges for strength. The panel is designed for areas which may be regularly hosed down or are in very wet or oily conditions. The panel provides protection from dust, dirt, oil and water.

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

Communication to these units occur at 38,400 baud over the MCS-I/O port which is dedicated for this purpose.

MCS-MAGNUM-NEMA-12-8 standard panel includes a MCS-MAGNUM-N, MCS-SI-BASE along with 9 Button 2.8” Monochrome LCD Display, 20 amp circuit breaker.

Panel includes the following; Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch and 3 Position Run/Stop Selector Switch. There is also an electrical outlet for laptop plug-in power at the panel, and a Ground Bar for Sensor input shields.

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

Visit our website for options available.