



MCS-CENTRIFUGAL-KEYPAD-12

Description & Specifications



Part # **MCS-CENTRIFUGAL-KEYPAD-12**

Description

The **MCS-CENTRIFUGAL-KEYPAD-12*** enclosure is made of powder-coated aluminum for durability and longevity. A left hand swing door is mounted with three eight-inch hinges for strength. A key lock is provided for security on the door while still giving easy access.

The MCS-CENTRIFUGAL-KEYPAD-12 comes standard equipped with a **MCS-MAGNUM-N** controller board, LCD Keypad, three 16 amp, one 20 amp and one 5 amp circuit breakers. There is also a 15A electrical outlet for laptop plug-in power at the panel and a Ground Bar for Sensor input shields.

The MCS-CENTRIFUGAL-KEYPAD-12 has the following expansion boards installed: One(1) MCS-SI-Base, and One(1) MCS-SI-BASE with MCS-SI-EXT, ONE(1) MCS-RO-Base with MCS-RO-EXT.

Standard configuration includes: isolation relays, BMS Network connectivity, (Field selectable hardware or network BMS), and BMS Terminal block for chiller relay.

The following warning lights and switches are included in the standard panel; Alarm, Warning, Emergency Switch and Hand/Off/Auto Switch.

UL 508A certification provides the inspection authority and your customer evidence that the control panel complies with nationally recognized safety standards. These standards ensure public safety and provide assurances that the electrical control panel is compliant with national and local electrical codes.

Specifications

NEMA Rating – Type 1 Enclosure - 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.

ENCLOSURE – LARGE BOX

Dimensions of Large Box27”w x 34.75”h x 8.0”d
Mounting Holes.....Mounts with four pre-drilled
15/32” holes

TEMPERATURE RANGE ENCLOSURE/Keypad/LCD

Operating Temp. of enclosure.-4°F to +158°F (-20°C to + 70°C)
Operating Humidity..... 0-95% Non-Condensing
Storage Temp.-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 Board Six layer with separate power and ground planes

Input Power (Standard)..... 12 VDC - 90W
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/EXT Expansion Boards

Sensor Inputs (SI)..... 48 inputs 0-5vdc (2 Base/1Ext)
Analog Outputs (AO) 12 outputs 0-10vdc
MCS-I/O Comm Port 1 @ 38,400 baud

MCS-RO-BASE/EXT Expansion Boards

Relay Outputs (RO).....20 outputs 6.3amps @ 230vac
MCS-I/O Comm Port 1 @ 38,400 baud

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 Layout.....9 keys (3 function keys)
Connection6 conductor shielded cable
RS-485 Comm Port1 @ 19,200 baud

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* Photo shown is an example of an Industrial Control Panel; some optional equipment may be shown.