



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.

Control panel includes the following; 20A, 16A and a 5A Single-Pole Circuit Breaker. A 5-port 10/100/1000 Mbps Ethernet Workgroup Switch Industrial rated, Red Alarm Indicator, Yellow Warning Indicator, Emergency Stop Switch with guard and 3 Position Run/Stop Selector Switch.

SHIELDWIRE-GROUNDING multi-terminal connectors (11) are included to eliminate stray electrical current, thereby helping to reduce line noise from the sensors to the controller.

Packaging

Weight 88 lbs(approx.)
 Box 29 x 10.5 x 42 (approx.)

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 Box 27" W x 39.75" H x 8" 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

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)
 Connection 6 conductor shielded cable
 RS-485 Comm Port 1 @ 19,200 baud

Power Supply - Specification

12vdc power supply 85vac ~ 264vac
 AC frequency range 47 ~ 63Hz
 Output rated current 7.5A
 Output rated power 90W
24vdc power supply 85vac ~ 264vac
 AC frequency range 47 ~ 63Hz
 Output rated current 4A
 Output rated power 96W

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