Part # **MCS-MAGNUM-SB-7-12**

Description

The **MCS-MAGNUM-SB-7-12** enclosure is made of powder coated aluminum for durability and longevity. A left hand swing door is mounted with two four-inch hinges for strength. A key lock is provided for security on the door while still giving easy access to the display. This box is intended for use in an environment protected from the weather.

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

The MCS-MAGNUM-SB-7-12 consists of a **MCS-MAGNUM** along with a Touchscreen 7" display. The **MCS-TOUCH-7** is a new touchscreen interface designed to simplify user access with the MCS-MAGNUM utilizing MCS-CONNECT to provide both graphics and service mode access to technicians. Information and graphics on the TOUCH-7 are shown on a 7" high resolution (1280x800) LCD display with LED backlighting, which will guarantee long-life operation.

For information on the MCS-MAGNUM, see specifications on our web site. Complementing the MCS-MAGNUM micro controller are a variety of MCS expansion boards that allow for system expansion to a maximum of 112 inputs and 80 outputs. Communication to these units occur at 38,400 baud over the MCS-I/O port which is dedicated for this purpose.

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

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 – Small Box

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

Temp. Range for Enclosure & 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)

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) .... 115 or 230vac ±10% 50/60Hz @77°F (25°C) ambient, 20VA max (Voltage is field selectable)
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

Touch Screen 7" - Specification

Dimensions .... 9.35"L x 7.125"W x 2.881"H
Mounting Door Mount .... 8.1875"L x 5.875"W Cutout
8 thru-hole studs thru customer's encl.
HT800 Cellular Silicone Gasket Indoor/outdoor *
VESA Mount .... 75 x 75 mm; 100 x 100 mm (indoor only)
LCD Screen .... 7.0" (16:10 Diagonal)
262,000 Colors
1280x800 Resolution
View Angle 80°U, 80°D, 80°L, 80°R
4-Wire resistive touch w/Stylus pen
Surface Treatment .... Glare/Anti-Reflection ≤1.5%
Hard Coating (3H)
Power Input .... 12Vdc 2 amps
Motherboard. .... Freescale i.MX6 Dual Core 800mhz
1Gb of 512mhz DDR3 RAM Mem.
4Gb of eMMC Flash memory
1Gb Ethernet (100Mb/10Mb comp.)
1 Micro-SD Slots;
1 USB On-The-Go (OTG)
2 USB Host 2.0; Real Time Clock (RTC) w/ Battery
LVDS for 15.4" LCD wi/5-wire resistive touch
3 RS485 communication ports (max. baud rate 115k)