



# MCS-MAGNUM-SB-7

## Description & Specifications



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

### Description

The **MCS-MAGNUM-SB-7** 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.

The MCS-MAGNUM-SB-7 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

- MB-WIRELESS-MODEM ..... Cellular Modem with 1 yr subscription
- MB-24VOLT-(115/230) ..... 115(230) to 24vac transformer
- MB-WARNING-(24/115/230) ..... Yellow warning indicator
- MB-ALARM-(24/115/230) ..... Red alarm indicator
- MB-RUN-LT#(1/2/3/4) ..... Green run indicator
- MB-RUN-SW. .... Run/Stop selector switch
- MB-EMERG-SW..... Emergency Stop switch
- MB-COMP#(1/2/3/4)..... Single compressor on/off switch
- MB-BYPASS..... Momentary bypass push button
- MB-ETHERNET ..... Industrial rated RS-232/Ethernet device

### 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 15.4 - Specification

Dimensions.....	17"L x 12.11"W x 3.228"H
	Gasket Material HT-800
	Medium Cellular Silicone
	NEMA 4 rating
LCD Screen.....	15.4" (16:10 Diagonal)
	16.2 Million Colors
	1280x800 Resolution
	View Angle 70°x70°x70°x 70° (Up, Down, Left, Right)
	5-Wire resistive touch w/Stylus pen
	White LED Backlight (Min Life 50,000 Hrs)
	Luminance Min. 300 cd/m <sup>2</sup>
Surface Treatment.....	Glare/Anti-Reflection ≤1.5% Hard Coating (3H)
Power Input .....	12Vdc 2 amps
Motherboard. ....	Freescle 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)

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