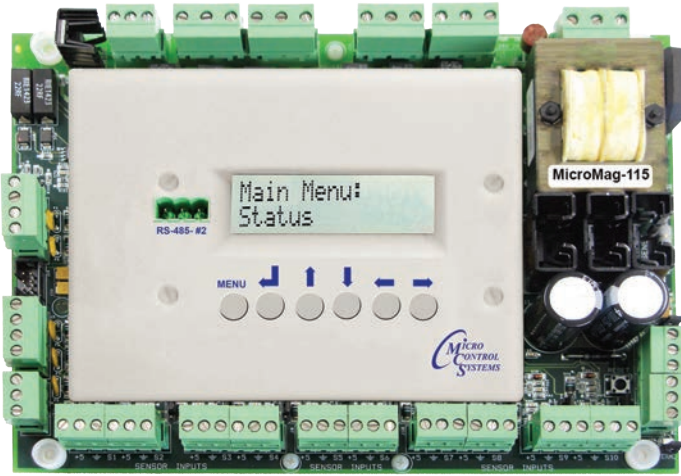




MicroMag-115

Description & Specifications

Specifications - Rev. 6.1



Part # **MicroMag-115**



File No: E169780

Controller

Dimensions.....	8.50"l, 6.00"w, 2.10"h
Mounting Holes.....	Mounts on a backplane using four #6 sheet metal screws
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)
Sensor Inputs (SI).....	10 inputs 0-5vdc (10-bit A/D)
Relay Outputs (RO).....	6 outputs 5.0amps @ 24 vac
Analog Outputs (AO).....	4 outputs 0-10vdc
Printed Circuit Board	Four layer with separate power and ground planes
Input Power (Standard)	115vac ±10% 50/60Hz @ 77°F (25°C) ambient, 25VA min
Current Draw	89mA @ 115VAC
MCS-I/O Comm Port	1 @ 38,400 baud
RS-485 Comm Port	2 @ 19,200 to 115,200 baud, select from MCS Protocol, Bacnet MSTP, Modbus RTU
Real Time Clock	Battery backup
Power Detection	Automatic power fail reset

Description

The **MicroMag** is a rugged controller designed for the hostile environment of the HVAC/R industry. It is designed to be the primary manager of the package it is controlling. The MicroMag provides flexibility with set points and control options that can be selected prior to commissioning a system or when the unit is live and functioning. Displays, alarms and other interfaces are accomplished in a clear and simple language that informs the user as to the status of the controller.

The MicroMag is designed to control up to 6 compressors with 6 circuits each. Complementing the MicroMag controller are 2 expansion boards that allow 26 Relay Outputs, 1 Triac Output, 42 Sensor Inputs and 12 Analog Outputs(using 2 expansion boards each). The expansion boards use the RS-485 protocol, allowing a 5000 ft distance between the MicroMag and its expansion boards.

The MicroMag has two RS-485 port. Both ports allow the user to interactively communicate with the MicroMag via MCS-Connect. A BMS (Building Management System) running Modbus RTU or BACnet MSTP can also communicate with the MicroMag via the RS-485 port for monitoring purposes.

Because the terminal blocks are removable, board replacement requires no wires to be removed.

Real Time Clock	Battery backed
Power Detection	Automatic power fail reset

Keypad/LCD

Display.....	2 x 16 Backlit on I ² C Bus
Keypad Layout.....	6 keys (Menu, Enter, 4 direction)
Connection	12 pin header plus 4 nylon bolts

A complete software support package MCS-CONNECT is available for your PC allowing for system configuration, dynamic on-line display screens, remote communication, graphing, and more.

Photo shows cover in place on a simulated door.



Field Reversible Cover

The Cover/LCD/Keypad can be removed from the MicroMag board and plugged into the backside of the MicroMag board for door mount option.

Photo shows MicroMag in this configuration.

Optional Kit available - call MCS-SALES

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