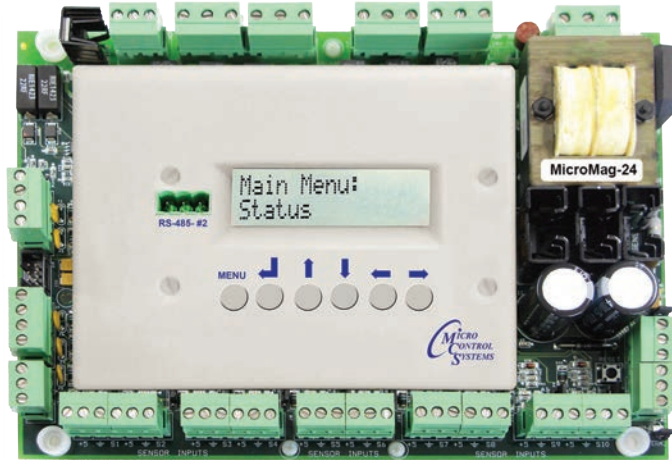




MicroMag-24

Description & Specifications

Specifications - Rev. 6.1



Part# MicroMag-24



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) 24vac ±10% 50/60Hz @ 77°F (25°C) ambient, 25VA min
 Current Draw 850mA @ 24VAC
 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

Real Time Clock Battery backed
 Power Detection Automatic power fail reset

Keypad/LCD

Display..... 2 x 16 Backlit on I²C 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.

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.

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

Revision 2017-11-28