

3.3.16 MR100 Group Interface Module

Control Power

Power Requirements: 12VA @ 120Vac, 50 or 60Hz

Communications

Ports: 1 Serial network connections
 Type: RS485
 Protocol: Modbus® RTU.
 Transmission Rate: 600, 1200, 2400, 4800, 9600 baud.
 Interconnect: 2-wire, shielded, twisted pair.
 Highway Distance: 4,000 feet without repeater.
 Modules per Highway: (1) MR100 and (30) Control Modules.

Environment

Approval: CSA NRTL/C
 Class I, Div. II, Groups A,B,C,D
 Class I Zone 2, Group IIC
 Operating Range: -40°C to +60°C
 (LCD Display: -20°C to +60°C)
 (VFD Display: -40°C to +60°C)
 Conformal Coating: Boards conformal coated for hostile environments

Alarm

Alarm Output: Programmable for NO or NC contacts
 One DC opto-isolated contact
 One dry mechanical contact
 Alarm Output Rating:
 Hazardous Areas: DC contact: 30Vdc/0.1A, 500mW max
 Dry mech contact: 30Vdc/10mA max
 250Vac/0.5A max
 (not subject to a corrosive environment)
 Ordinary Areas: DC contact: 30Vdc/0.1A, 500mW max
 Dry mech contact: 120Vac/1.0A max
 30Vdc/0.1A max
 Alarm Light Output: LED Indicator: 12Vdc/30mA
 Alarm Messages: Refer to Control Module Specifications

User Interface

Display: 16-character x 2-line LCD or VFD
 Alpha-numeric display
 Keypad: 9 tactile keys, polyester faceplate
 - Setpoint, measured, status
 - Message Up, Message Down
 - Value Up, Value Down
 - Reset
 - Store
 Contrast: Adjustable by potentiometer
 Panel Indicators: Power on
 Current heater display on
 Serial communication active
 System alarm
 Process alarm

Bezel

Material: 304 Stainless steel
 Mounting: For mounting on NEMA-4/4X enclosure door. Includes gasketing.
 Optional: 304 Stainless steel shroud with plexi-glass hinged cover to protect keypad from physical damage.

Specifications subject to change without notice.