12VA @ 120Vac, 50 or 60Hz

1 Serial network connections

4,000 feet without repeater.

600, 1200, 2400, 4800, 9600 baud. 2-wire, shielded, twisted pair.

(1) MR100 and (30) Control Modules.

3.3.15 ML100 Dedicated Interface Module

Control Power

Power Requirements:

connector: +5Vdc/0.1A, +8Vdc/0.4A, -6.5Vdc/1mA

Communications

Port: Interconnect: Cable Length:

Environment

Approval: Operating Range: Conformal Coating:

User Interface

Display:

Keypad:

Contrast:	
Panel Indicators:	

Bezel

Material: Mounting: enclosure door. Includes gasketing. Optional:

From Control Module ML100 Interface

1 Dedicated parallel connection 26-pin IDC ribbon cable 3 feet maximum

CSA NRTL/C Class 1, Div.II, Groups A,B,C,D Class 1, Zone-2, Groups IIC -40°C to +60°C (LCD Display: -20°C to +60°C) (VFD Display: -40°C to +60°C) Boards conformal coated for hostile environments

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

304 Stainless steel For mounting on NEMA-12 or NEMA-4 304 Stainless steel shroud with plexiglass hinged cover to protect keypad from physical damage.

3.3.16 MR100 Group Interface Module

RS485

Modbus® RTU.

Control Power

Power Requirements:

Communications

Ports: Type: Protocol: Transmission Rate: Interconnect: Highway Distance: Modules per Highway:

Environment

Alarm

Approval: CSA NRTL/C Class1, Div.II, Groups A,B,C,D Class1 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 Output: Programmable for NO or NC contacts One DC opto-isolated contact One dry mechanical contact Alarm Output Rating: DC contact: 30Vdc/0.1A, 500mW max Hazardous Areas: Dry mech contact: 30Vdc/10mA max 250Vac/0.5A max (not subject to a corrosive environment) DC contact: 30Vdc/0.1A, 500mW max Ordinary Areas: 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 9 tactile keys, polyester faceplate Keypad: - Setpoint, measured, status - Message Up, Message Down - Value Up, Value Down - Reset - Store Contrast: Adjustable by potentiometer Power on

Panel Indicators: Current heater display on

Bezel Material:

Mounting:

Optional:

304 Stainless steel For mounting on NEMA-4/4X enclosure door. Includes gasketing. 304 Stainless steel shroud with plexiglass hinged cover to protect keypad from physical damage.

System alarm Process alarm

Serial communication active

Specifications subject to change without notice.