MASTER*TRACE*

3.3.13 MS-10ADXH0 Control Module (CLASS I, DIV/ZONE 2 AREAS)

Temperature Input

Range: Accuracy: Repeatability: Sensor: -50°C to +500°C ±2°C ±1°C Ten 100 ohm, Platinum, 3-wire RTD; one per point 20 ohm maximum lead resistance

Ten current transformers; one per point

Ten current transformers; one per point

0.1A to 100A

10mA to 1000mA

3%±0.2A

5%±2mA

13.7 seconds

Single Phase

RS485

Modbus® RTU.

15VA @ 120Vac, 50 or 60Hz

(2) Serial network connections

600, 1200, 2400, 4800, 9600 baud.

(1) Interface and (30) Control Modules.

2-wire, shielded, twisted pair.

4,000 feet without repeater.

(1) Parallel Local Interface connection

Current Input

Range: Accuracy: Sensor:

GF Input

Range: Accuracy: Sensor: Maimum Trip Time:

Heater Switching

No. of SSR Outputs: SSR Output Rating: Ten 12Vdc@15mA max output for driving external solid-state relays 600Vac@100A max. GF CT will allow two conductors of O.D. 0.35" max.

Heater Configuration: Control Power

Power Requirements:

Communications

Communication Ports:

Serial Communications Type:

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

Measured Values

Temperature: Minimum Temperature: Maximum Temperature: Heater Current: Heater Percent Power: Ground Fault Current: Heater Utilization: Power Consumption: Operating Cost:

-50 to 500°C (-58 to 932°F) -50 to 500°C (-58 to 932°F) -50 to 500°C (-58 to 932°F) 0.1 to 100A 0 to 100% 0.01 to 1.0A 0 to 100% 0 to 1,000 MWh 0 to \$1,000,000.00

Approval:	CSA NRTL/C Class1, Div.II, Groups A,B,C,D Class1 Zone 2, Group IIC
Operating Range:	-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)
	(not subject to a consiste environment)
Ordinary Areas:	DC contact: 30Vdc/0.1A, 500mW max
5	Dry mech contact: 120Vac/1.0A max
	30Vdc/0.1A max
Alarm Light Output:	LED Indicator: 12Vdc/30mA
Alarm Messages	
Temperature:	High Temperature Alarm
remperature.	Low Temperature Alarm
Current:	High Current Alarm
	Low Current Alarm
	High Current Trip
Ground Fault Current:	Ground Fault Current Alarm
YY 1	Ground Fault Current Trip

Self-Check Failure

Switch Shorted

RTD Open

RTD Shorted

User-Settable Options

Hardware:

Environment

Heater Status: Heater Name or Tag: Temperature Units: Control Strategy: Deadband: StaggerStart: PowerLimit: Temperature Setpoint: High Temp Alarm: Low Temp Alarm: High Current Alarm: Low Current Alarm: High Current Trip: Ground Fault Alarm: Ground Fault Trip: TraceCheck Interval: RTD Fail-safe: Master Override Input: Alarm Contacts: Alarm Light: GF Test:

Enable or Disable 16 Character Alphanumeric °C or °F On-Off or Proportional 0 to 50C° (0-90F°) On or Off 0.5 to 100A 0 to 500°C (32 to 932°F) 0 to 500°C (32 to 932°F) -50 to 500°C (-58 to 932°F) 0.5 to 100A 0.5 to 100A 0.5 to 100A 0.01 to 1.0A 0.01 to 1.0A 1 to 24 hr. Heater On or Heater Off On or Off NO or NC for each contact Alarm on, Alarm off, Flash during alarm then on, Flash during alarm then off 1 to 24hrs, test now

Specifications subject to change without notice.