INT1100 INT1110

Network-Based Temperature Programming

Multi-Level Password Programming Access

Programmable Temperature Control

Independently Programmable Heat and Cooling Set Points

Operating Ambient Temperature of 4°F to 122°F

**Sealed Chassis** 

Water Proof Connectors

**ICE®** Technology



## **Rocky Research Intelligent Thermostat**

COMMERCIAL | INDUSTRIAL |

DEFENSE



Rocky Research's Intelligent Thermostat is a combination thermostat - humidistat designed for use in environments encountered aboard Navy ships. This device is a network, password-authenticated system which offers real-time configurable temperature and humidity control via a network. Rocky Research's Intelligent Thermostat allows for limiting the range of temperature adjustment made at the device location via local and remote programming. Password authorization directly at the thermostat can also be enabled. Network features include real-time configurability of temperature and humidity set-points, trip-point differentials, and keypad locking. Real-time updated displays of present values and states of thermostat operation are also shown. There are three-stages of heating and one-stage of cooling. The display shows zone temperature and humidity, as well as all set points.

The Intelligent Thermostat is available with or without bulkhead mounting plates – INT1110 and INT1100 respectively. The system's electronics are custom built from commercial-off-the-shelf components that provide the latest in commercial thermostat capabilities. Digital time-filtered readings provide minimum jitter and high long-term stability of control outputs, minimizing short-cycling and disturbance issues.

The units are EMI certified in accordance with MIL-STD-461E as well as shock and vibration certified without the use of isolators in accordance with MIL-S-901D, Grade A, Class I and MIL-STD-167-1A, Type I. They are waterproof and designed for operation in Salt Fog environment.

## **System Specifications**

Operating Ambient Temperature: 4°F – 122°F

Set-Point Range: 40°F to 90°F

Temperature Stage Points: 3 – Stage Heating

1 - Stage Cooling

Deadband: Configurable Set-Point Deadband

Control Point Accuracy: +/-1°F at the 70°F Control Set-Point

+/-1.5°F at Other Control Set-Points

Display: Clear, Backlit LCD

Network Communications: 10/100 Ethernet (TCP/IP)

Network Media: 100mb Ethernet

Network Settings: Password Authentication

Static/DHCP Addressing Class A, B, C Notification

Network Features: Remote Monitoring & Control

Remote Diagnostics

Power: 120/24 VAC 50/60Hz External Power

Maximum Coil amps Holding: 1 amp

Maximum Coil amps Inrush: 10 amps

## **Physical Specifications**

Form Factor: Wall-Mount in Multiple Orientations

Dimensions: 11.25" (W) x 3.13" (H) x 2.25" (D)

12.50" (W) x 4.50" (H) x 2.50" (D)

with Mounting Plate

Weight: 3.5 lbs

4.0 lbs with Mounting Plate

## **Environmental Specifications – Designed to Meet**

Shock: MIL-STD-901D, Grade A, Class I, Type A Certified

Vibration: MIL-STD-167-1A, Type I Certified

EMI: MIL-STD-461E, Surface Ships Certified

Temperature: 4°F to 122°F

Humidity: 5% to 95% non-condensing

Salt Fog

Enclosure Protection: NEMA 4