

Cool solutions to thermal problems.

Rocky
Research

COMMERCIAL | INDUSTRIAL | DEFENSE

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



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