



HVAC Nodes (top left to right) - MT-504, MT-508, MT-512

Micro Thermo's HVAC controllers are designed to control various HVAC systems for supermarket applications. Rather than requiring a separate building management system, the MT HVAC application is integrated with the MT Alliance™ system to provide a single, unified application for refrigeration, HVAC and lighting.

The MT-500 series of control boards, known as "nodes", can support, among other things, Roof-Top Units (RTU), Air Handler Units (AHU) and Dual-Path Units (DPU) from various vendors in sizes ranging from 2 tons up to 100 tons. Based on the number of relay outputs needed (4, 8 or 12) an MT-504, MT-508 or MT-512 board is utilized. The board can be factory or field-installed.

Micro Thermo provides an MT Alliance software tool for configuration, setup and operation of RTU, AHU and DPU equipment. This provides you with a wide range of configuration options to support a variety of HVAC strategies and schedules.

KEY FEATURES AND BENEFITS

- Flexible I/O options to support various types of HVAC equipment
- Occupancy-driven scheduling for maximum energy efficiency
- Humidity control by RH% or dewpoint, which can drastically improve efficiency of refrigeration system
- Alarms can be configured for all of the inputs to provide safe and efficient operation
- Support for 1-6 cooling stages, 1-6 heating stages, 1-3 pre-heat stages
- Analog outputs for modulated heating stage and outside, return, and bypass air dampers
- Setpoints for occupied and unoccupied modes with adjustable heat and cool deadbands, and summer/winter detection based on outside temperature

Supermarket Controls Solutions... **Simply Powerful**

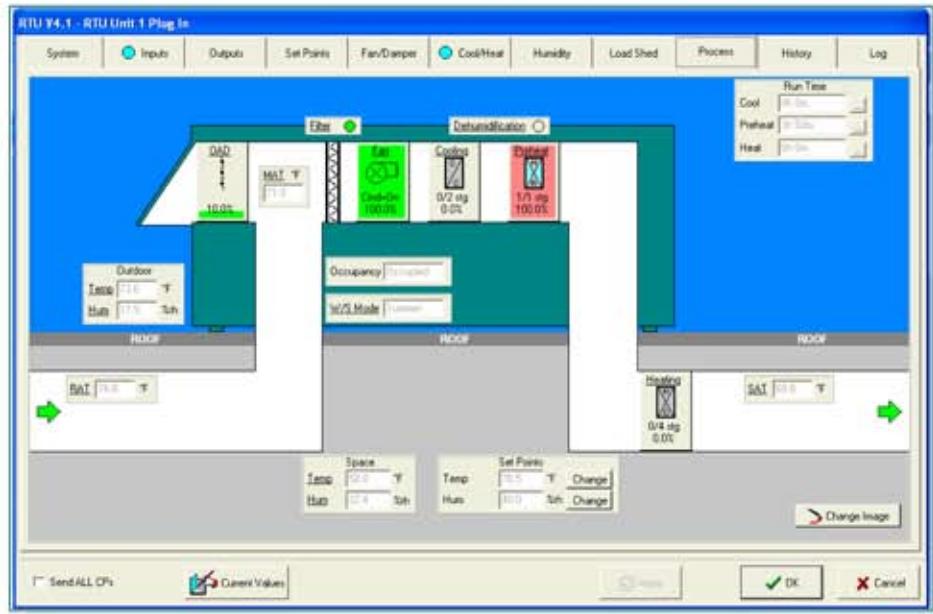
www.microthermo.com



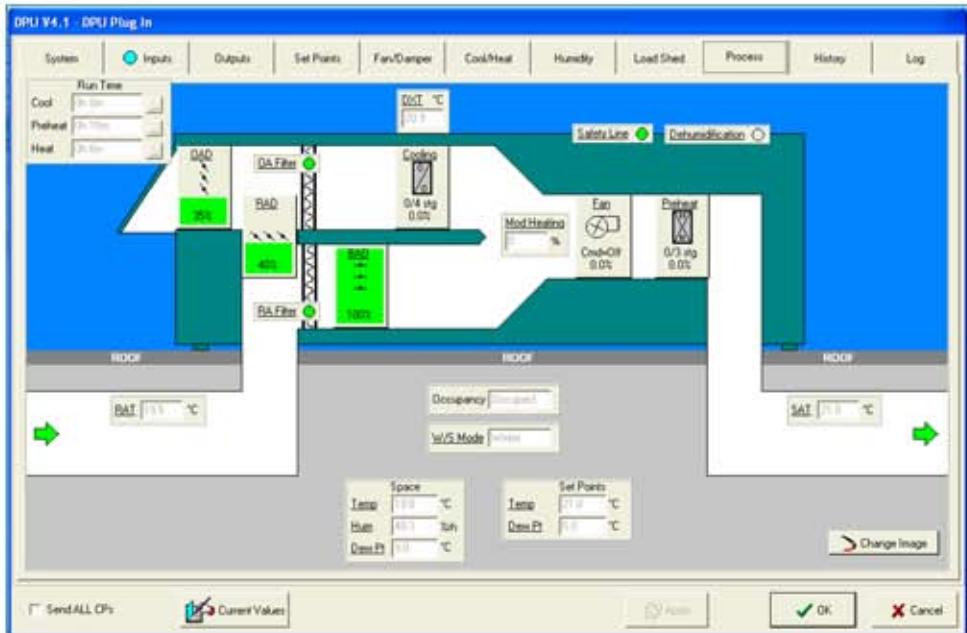
SPECIFICATIONS

	MT-504	MT-508	MT-512
Applications	Small HVAC Applications: 0-5 Ton Roof-Top Units	Medium HVAC Applications: 5-40 Ton Roof-Top Units	Large HVAC Applications: 40-100 Ton Roof-Top Units
Universal Inputs	8 Universal Inputs (Analog or Digital): 0-5V, 0-10V, 4-20mA, 10K Thermistor Lowpass filter input conditioning	8 Universal Inputs (Analog or Digital): 0-5V, 0-10V, 4-20mA, 10K Thermistor Lowpass filter input conditioning	8 Universal Inputs (Analog or Digital): 0-5V, 0-10V, 4-20mA, 10K Thermistor Lowpass filter input conditioning
Digital Inputs	None	4 Digital Inputs: 0-15V, optically isolated	8 Digital Inputs: 0-15V, optically isolated
Digital Outputs	4 Type C Relay Outputs: SPDT, 2A, 250Vac. Protected by on board fuses	8 Type C Relay Outputs: SPDT, 2A, 250Vac. Protected by on board fuses	12 Type C Relay Outputs: SPDT, 2A, 250Vac. Protected by on board fuses
Analog Outputs	4 Analog Outputs configurable: 0-20mA, 0-5V, 0-10V, 2-10V. Protected by current limit (20mA max)	4 Analog Outputs configurable: 0-20mA, 0-5V, 0-10V, 2-10V. Protected by current limit (20mA max)	4 Analog Outputs configurable: 0-20mA, 0-5V, 0-10V, 2-10V. Protected by current limit (20mA max)
Dimensions	8.0" x 4.0" x 1.5" (204mm x 102mm x 38mm)	12.25" x 4.0" x 1.5" (312mm x 102mm x 38mm)	16.375" x 4.0" x 1.5" (416mm x 102mm x 38mm)
Mounting	SnapTrak Panel or Wall Mounting	SnapTrak Panel or Wall Mounting	SnapTrak Panel or Wall Mounting
Electrical	24Vac center tap transformer 12VA	24Vac center tap transformer 15VA	24Vac center tap transformer 20VA
Environmental	Operating and Storage: -40-168°F (-40-75°C) 5-95% RH, non-condensing	Operating and Storage: -40-168°F (-40-75°C) 5-95% RH, non-condensing	Operating and Storage: -40-168°F (-40-75°C) 5-95% RH, non-condensing
Listings	UL Listed, CSA Approved	UL Listed, CSA Approved	UL Listed, CSA Approved

Supermarket Controls Solutions... **Simply Powerful**
www.microthermo.com



See your building's Roof-Top Unit operation and easily access setpoints and other operating parameters.



Reduce troubleshooting time with on-screen interaction.
 Change Dual-Path Unit operating parameters, view results and determine action, prior to dispatching a mechanic.

Supermarket Controls Solutions... **Simply Powerful**
www.microthermo.com

