■ TSU

Standalone Wall-Mount Controller

Neptronic's TSU is a standalone wall-mount controller with a built-in temperature sensor and scheduler. The unit is designed for straightforward and accurate control of fan coil units and heating/cooling equipment. Its field configurable algorithms enable versatile implementation of required control sequences.

The TSU also provides an optional humidity sensor input for simple and accurate humidity control and provides a dehumidification sequence compensated by auto activation of reheat output. This controller is also available with an additional PIR motion detection sensor, providing more functionality for the terminal device.

APPLICATIONS

The TSU is the ideal solution for a variety of applications that require accurate control, such as:

- Fan coil units (2 or 4 pipes)
- Multi-stage heating/cooling equipment

MODELS

Models	Temp.	RH	PIR
● TSU00-110	•		
● TSU00-111	•	•	
● TSU00-114	•		•
● TSU00-115	•	•	•

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STANDARD FEATURES

- Fan control: 1, 2, or 3-speed (auto/on), or analog (ECM)
- Optional internal/external humidity sensor input for simple and accurate humidity control
- Dehumidification sequence compensated by auto activation of reheat output
- Real time clock (RTC) with 24-hour backup
- 7-day programmable schedule
- Precise temperature control with configurable PI (Proportional-Integral) function
- Selectable internal or external temperature sensor
- Low limit set protection (10°C / 50°F)
- Occupancy and night set back (NSB) mode
- Selectable direction on outputs
- Option of pulse/floating/on-off output on binary outputs
- Internal/external occupancy input
- Compressor anti-cycling delay (configurable)
- ΔT control (on request)
- Dimensions: 124mm x 83mm x 20mm (4.88" x 3.25" x 0.78")
- Made in Canada

OPTIONAL FEATURES

- Humidity sensor for RH control
    - Sensor Range: 5 to 95% RH
    - Control Accuracy: ±3.5% RH
- PIR sensor for energy saving functions
    - Detection Angle: 100°
    - Detection Distance: 4m (13ft)

INPUTS/OUTPUTS

- 2 Configurable Universal Inputs (0-10Vdc, 10KΩ sensor, dry contact)
- 5 Configurable Binary Outputs (OptoFET, 250mA max)
- 2 Configurable Analog Outputs (0-10Vdc, adjustable)

RELAY INTERFACE BOARD (OPTIONAL PERIPHERAL)

- 240/120 Vac
- 3, 4 or 5 contacts
- Metal box with secure 4-point mounting (models without enclosure also available)
- Equipped with built-in transformer (12VA max)

Model	Voltage	Contact Ratings		Number of Outputs
		Resistive	Motor	
CCC713-07	120 Vac	7 A	1/4 HP	3
CCC714-07				4
CCC715-07				5
CCC723-07	240 Vac			3
CCC724-07				4
CCC725-07				5