



A421

SNOW MELTING / ROOF DE-ICING / PIPE TRACE

Electronic Thermostat with Remote Bulb

DESCRIPTION

The A421 series of controls are single stage, electronic temperature controls with a single-pole, double-throw (SPDT) output relay. The controls feature an adjustable backlit LCD for viewing the temperature and status of other functions, and a three-button touchpad for setup and adjustment. A421 controls are rated for 120/240VAC.

The A421 controls provide heating or cooling control, sensor offset, temperature setback, adjustable anti-short cycle delay, and a restricted user adjustment mode. The temperature units can be displayed in °C or °F.

The A421 controls are available in NEMA Type 1 (IP20) enclosures suitable for surface or DIN rail mounting and NEMA Type 4X (IP66) that is watertight and corrosion-resistant



FEATURES

Ambient operating conditions

- Type 4X: -40 °C to 60 °C (-40 °F to 140 °F).
- Type 1: -40 °C to 66 °C (-40 °F to 150 °F).

Ambient storage conditions

- Nema 4X: -40 °C to 60 °C (-40 °F to 140 °F).
- Nema 1: -40 °C to 85 °C (-40 °F to 185 °F).

Voltage

- 120V-240VAC, 50/60 Hz.

Enclosure material

- Nema 4x: IP66 watertight, high-impact, corrosion-resistant thermoplastic.
- Nema 1: IP20 high-impact, thermoplastic.

Warranty

- 3-year limited warranty.

LCD panel

- Front panel control.
- LCD panel displays temperature parameters, status, and adjustment of backlight intensity.

Programming

- Basic and advanced programming menu.
- On/off temperature adjustment. Select temperature values the relay turns on/off.
- Adjustable anti-short cycle delay.

Temperature setback

- Switch-activated temperature setback.
- Shift the on/off temperature by an adjustable setback value.

Self-test

- Sensor failure mode.

APPLICATIONS

The A421 electronic temperature control can be used to control a wide variety of single-stage electrical heating equipment.

Temperature control applications include:

- Temperature monitoring and alarming.
- On/off control of snow/ice melt systems.
- Heating and cooling control.
- Control based on water temperature.
- Mixed air temperature control.

MODELS

PRODUCT #	DESCRIPTION	VOLTS	AMP.
A421ABC-06C	NEMA 1 electronic thermostat with 19.5 ft. (6 m) capillary	120-240	10
A421AEC-02C	NEMA 4X electronic thermostat with 6 ft. (2 m) capillary	120-240	10
A99BB-600C	19.5 ft. (6 m) silicon PTC temperature sensor cable (-40 °C to 105 °C)	--	--