

PRODUCT SUBMITTAL 665

Product: **Two-Stage Programmable Radiant Heating Thermostat (521) with Floor Sensor**
Date: **27 February 2015**



Article No.	Description	Unit Weight lb (kg)
398023-001	Two-Stage Programmable Radiant Heating Thermostat (521) with Floor Sensor	0.60 (0.27)

TECHNICAL DESCRIPTION

Two-Stage Programmable Radiant Heating Thermostat 521	
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	0.6 lb (290 g)
Dimensions	3 11/16 H x 3 W x 15/16 in. D (94 x 76 x 24 mm)
Enclosure	White PVC plastic, NEMA type 1
Approvals	Meets Class B: ICES & FCC Parts 15, CE
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH ≤90% non-condensing
Power supply	10 to 30 V (ac/dc), 50/60 Hz, 1.8 VA, Class 2
Relay	30 V (ac/dc) 2 A, Class 2 circuits
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C±0.2°C) β=3892

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Slab Sensor 079	
Dimensions	3/16 OD x 1 1/2 in (5 OD x 38 mm)
Enclosure	316 stainless steel, 10 ft (3 m) 24 AWG, 300 volt PVC insulated zipcord
Approvals	CSA C US
Operating range	-58 to 221°F (-50 to 105°C)
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C±0.2°C) β=3892

FUNCTIONAL DESCRIPTION

Two-Stage Programmable Radiant Heating Thermostat offers three modes of operation: one stage of heating, one stage of heating and one stage of cooling with fan, or two stages of heating with fan. Included slab sensor measures radiant floor temperature to protect the floor from overheating and to enhance comfort. The programmable schedule supports either a 7-day or 24-hour schedule with 2 or 4 events per day. A permanent temperature hold button overrides the programmable schedule.

The thermostat requires 24 VAC power supply and can be used to directly control up to seven REHAU manifold actuators (Art. 260166). This thermostat can also be used with REHAU zone controls. 4-conductor 18 AWG or similar wire is recommended for all 24 VAC wiring.

Additional features:

- 7-day programmable schedule
- Optimum start
- Permanent temperature hold
- Radiant floor heating
- 2-stage heating
- Cooling
- Fan
- Backlight
- Outdoor floor temperature display
- Time clock
- 4-hour battery-free clock backup