



T6 Pro Hydronic Programmable Thermostat

SUBMITTAL SHEET

Job Name	
Engineer	
Mechanical Contractor	
Contractor's P.O. No.	
Representative	
Notes	

Model(s)			
TH6100AF2004	Qty.		Notes
Approval			
Service			
Tag No.			

APPLICATION

Model TH6100AF2004:

Single stage hot water heat only systems.

AQ12C20 wired floor sensor (included in package).

Dimensions Lead Length: 180 in. (4570 mm.) 10 kohm NTC thermistor at 25 C (77 F) +/- 0.5F (+/-0.3C)

C7189U1005 wired indoor air sensor. Optional. Cannot be used if floor sensor is used.

A mode: Controls and displays the ambient air temperature only.

F mode: Controls and displays the floor temperature only using an external floor temperature sensor. This control mode is suitable for areas such as bathrooms where floor temperature could be scheduled to be warm only during occupied, morning and evening periods.

- Floor temperature is indicated by "FLR" above the actual floor temperature.
- Actual ambient air temperature could also be displayed in the Thermostat MENU/TEMP.

AF mode: Controls and displays the ambient air temperature as well as maintains the floor temperature within desired floor temperature limits using an external floor temperature sensor. Setting the minimum and maximum floor temperature limits is a way to enhance comfort and to protect the floor covering at the same time.

SPECIFICATIONS

Terminal Designations: R, RC, C, W, S, and S.

Electrical Ratings:

Terminal	Voltage (50/60Hz)	Running Current
W Heating	18-30 Vac	0.02-1.0 A

Programming Options: 7-day, 5-1-1, 5-2, non- programmable

Heat Indication: Displays "Heat On" when the thermostat turns the heating on.

Temperature Sensor Accuracy:
± 1.5 °F at 70 °F (0.85 °C at 21.0 °C)

Clock Accuracy: ± 1 minute every month (30 days) at 77°F.
± 2 minutes per month over the operating ambient temperature range.

Physical Dimensions: 4-1/16" H x 4-1/16" W x 1-5/32" D
103.5 mm H x 103.5 mm W x 29 mm D

Display Size: 5.44 sq. in.

Mounting Means: Thermostat packaged with a UWP mounting system that mounts directly on the wall in the living space using mounting screws and anchors provided. Use the optional cover plate (also included with thermostat) if covering marks from previous thermostat.

Vacation mode settings and floor economy mode for energy savings.

Adjustable min on time to prevent short cycling.

Adjustable CPH (cycle per hour)

Continuous backlight brightness setting (C-wire only)

Power Requirements:

AA alkaline battery 2pcs. And/or

C-wire input: 18-30VAC; 50Hz-60Hz

Typical Power Consumption:

Backlight On: 1.0VA

Selectable Ranges Stops:

Max Heat:

- A/AF mode: 40 °F to 90 °F (default 90 °F);
4.5 °C to 32.0 °C (default 32.0 °C)
- F mode: 40 °F to 99 °F (default 85 °F);
4.5 °C to 38.0 °C (default 29.5 °C)

Min Heat:

- A/AF mode: 40 °F to 90 °F (default 50 °F);
4.5 °C to 32.0 °C (default 10 °C)
- F mode: 40 °F to 99 °F (default 50 °F);
4.5 °C to 38.0 °C (default 10 °C)

Min Floor Temp Limit: 40 °F to 89 °F (72 °F);
4.5 °C to 31.5 °C (22.2 °C)

Max Floor Temp Limit: 50 °F to 99 °F (85 °F);
10 °C to 38 °C (29.5 °C)

Freeze Protection Temperature:

A Mode: 40 °F to 50 °F (40 °F); 4.5 °C to 10.0 °C (4.5 °C)

A/AF Mode: 40 °F (4.5 °C) to Min. Floor Temp. Limit

F Mode: 40 °F (4.5 °C) to Min. Heat Temp. Setpoint

Operating Ambient Temperature:

37 °F to 102 °F (2.8 °C to 38.9 °C)

Shipping Temperature: -20 °F to 120 °F (-28.9 °C to 48.9 °C)

Operating Relative Humidity: 5% to 90% (non-condensing)

DST Enabled

Color: White

5 Year Warranty

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