

Series

# OTH24-AFR

### Low Voltage Programmable Electronic Thermostat (2 outputs)



## Features

Type	- Low voltage programmable electronic thermostat.
Color	- Standard: white.
Voltage	- 24Vac, 50/60 Hz.
Power	- 1A per output (2 outputs).
Configuration	- "Installer" configuration menu used to lock certain thermostat functions with a 4-digit code. Ideal for restricting access to programming functions or to the temperature setpoint.
Mode	- <b>First output (main):</b> <u>A mode:</u> Ambient temperature control. <i>Note: Floor temperature can be controlled using an external temperature sensor when a floor heating cable is used as the heating source.</i> <u>F mode:</u> Floor temperature control using an external temperature sensor with ability to control the ambient temperature. <u>P mode:</u> Proportional control with fixed cycle rate. This mode works without using a temperature sensor (ideal for controlling radiant heating units).
Control	- <b>Second output (auxiliary):</b> The second output is activated if the first heating system controlled by the first output cannot reach the temperature setpoint. - "Boost" (timer) function on the auxiliary output (only available in Ambient or Proportional mode). - 15-second cycle or 5, 10, 15, 20, 25, 30-minute cycle (individually adjustable on each output). - Adjustment of the minimum Time ON and minimum Time OFF on the main output. Defines the minimum time for which the output can be turned ON or turned OFF (used for heating system with a purge). - Pump exercise OFF/ON (if set to ON, the thermostat activates its main output for 1 minute every 24 hours to prevent pump from seizing). - Resolution: $\pm 0.5$ °C (1 °F).
Display	- Digital display of ambient temperature (°C or °F), heating level indicator and temperature setpoint. - Backlit - permanent or activated on request. - Temperature setting recorded permanently.
Program	- <b>4 programming modes:</b> <ul style="list-style-type: none"><li>• <b>No freeze:</b> The thermostat maintains a temperature setpoint of 5 °C (41 °F).</li><li>• <b>Manual:</b> All settings must be adjusted manually.</li><li>• <b>Automatic:</b> The thermostat automatically changes the temperature settings according to the programmed settings:<ul style="list-style-type: none"><li>▪ "5-2": One program for weekdays and one for the weekend.</li><li>▪ "7": A different program for every day of the week.</li></ul></li><li>• <b>Off (Sleep mode).</b></li></ul>
Temperature range	- 5 °C to 36 °C (41 °F to 97 °F).
Storage Temperature	- -20 °C to 50 °C (-4 °F to 158 °F).
Installation	- 3-wire thermostat (minimum).
Application	- 2 low voltage outputs that can be connected using a 24V relay and a transformer to control electric baseboard heaters, convectors, forced-air convectors, electric heating floors, water pumps and boilers. <i>Note: Select the cycle according to the type of heating.</i>
Warranty	- <b>3-year warranty against defects.</b>

### Model

Product #	Qty	Volts	Amp.	Description
OTH24-AFR		24	1A	Low voltage programmable electronic thermostat (2 outputs)

### Specifications may change without prior notice

Project:	Approval Information
Consultant Engineer:	
Electrician Contractor:	
Distributor:	
Date:	
Contact in Brasch:	
Comments:	