

Braeburn®

4235

Up to 3 Heat / 2 Cool Heat Pump
Up to 2 Heat / 2 Cool Conventional
Universal Programmable Thermostat
with Dry Contact and Humidity Control 



ACTUAL SIZE

Features

- 7 Day, 5-2 Day or Non-Programmable
- Large Display with Adjustable Backlight
- Auto or Manual Humidification Control
- Dehumidification Control with Overcooling
- Auto or Manual Changeover
- SmartLimit® Temperature Limits
- Indoor or Outdoor Remote Sensing*
- SpeedSet® Programming Mode
- Hardwire or Battery Powered
- User and Installer Lock Modes
- Pre-Occupancy Purge Option
- Auxiliary Heat Fossil Fuel Option
- Programmable and Circulating Fan Modes
- Adaptive Recovery Mode (ARM™)
- Temporary Override Limits
- Compatible with 2 or 3 Wire Hydronic Zone Systems
- Multi-Function Dry Contact Input for Occupancy Control, Condensate Monitoring or Door Switch Activation

*Separate remote sensor required.

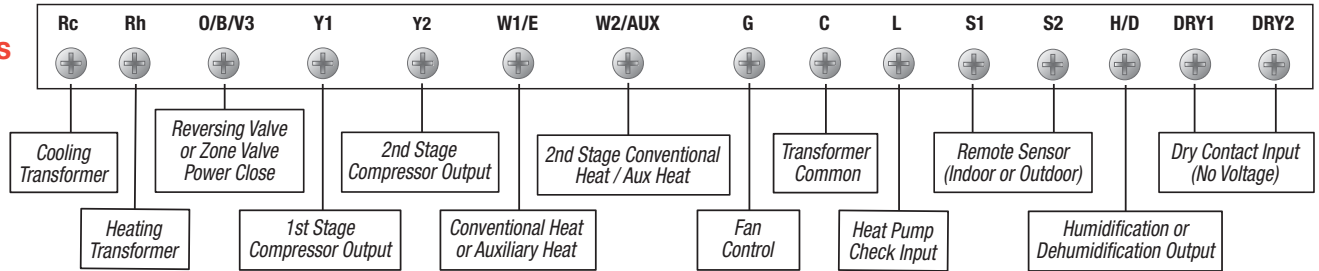
**PREMIER
SERIES**



**FREE Contractor Branding
on Removable Face Plate!**

Residential or Commercial

Terminal Designations



Architectural Specifications

The universal auto changeover thermostat shall be a Braeburn® model number 4235, 4.25" high x 5.12" wide x 1" deep, powered with either 24 Volt AC or with two "AA" Alkaline batteries (3.0 Volt DC). In the event of a power failure, the unit shall retain all user, installer and program settings. The thermostat shall be compatible with low voltage single or multistage gas, oil, or electric heating or cooling systems and single or multistage heat pumps with auxiliary heat. Also compatible with 250mv – 750mv millivolt heating only systems and 2 or 3 wire hydronic zone systems. The thermostat shall have an adjustable bright blue backlight display, separate sub-base and multi-level keypad lockout. Temperature control range shall be between 45° and 90° F (7° and 32° C), accuracy of +/- 1° F (+/- .5° C) and operating humidity range between 5% and 95% relative humidity. The thermostat shall include separate installer and user setup modes, permanent non-volatile memory to retain user settings, filter, UV and humidifier pad check monitor, adaptive recovery mode (ARM™), programmable fan mode, residual cooling fan delay, indoor or outdoor remote sensor capability and multi-function dry contact input. Thermostat can be used to control an external humidifier or dehumidifier. The cooling system can also be used to reduce humidity.

Product Specifications

Dimensions:	4.25" x 5.12" x 1"
Electric Rating:	24 Volt AC (18-30 Volt AC) 1 amp maximum load per terminal 7 amp total maximum load (all terminals)
AC Power:	18-30 Volt AC
DC Power:	3.0 Volts DC (2 "AA" Alkaline batteries included)
Compatibility:	Single stage gas, oil, electric or hydronic systems Single stage heat pumps with or without auxiliary heat 250mv – 750mv millivolt heating systems
Control Range:	45° to 90° F (7° to 32° C)
Display Range:	35° to 99° F (1.5° to 37° C)
Accuracy:	+/- 1° F (+/- .5° C)
Temperature Differential:	0.5°, 1°, or 2° F (0.2°, 0.5°, or 1° C)
Storage Temperature:	14° to 140° F (-10° to 60° C)
Operating Humidity:	5% to 95% Relative Humidity
Terminations:	Rc, Rh, O/B/V3, Y1, Y2, W1/E, W2/AUX, G, C, L, S1, S2, H/D, DRY1, DRY2

Shipping Information

INDIVIDUAL CARTON	MASTER CARTON
Dimensions: 6.13" x 5.13" x 1.75"	Quantity: 6
Weight: .95 lbs.	Dimensions: 11" x 6.63" x 5.75"
	Cubic Feet: .24
	Weight: 6.25 lbs.

Braeburn 4235 Replaces*

Honeywell®	TH6110D, TH6210U, TH6220D, TH6320D, TH6320U
Emerson®	1F80-0471, 1F85-0422, 1F85U-22PR, 1F85U-42PR
Venstar®	T3800, T3900, T4800, T4900

*Verify specific application requirements.
All trademarks are the property of their respective owners.

Accessories

2950 Universal Wall Plate (6.5" x 6.5" x .125")	5390 Remote Indoor Sensor
5970 Universal Thermostat Guard	5490 Remote Outdoor Sensor

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Visit our website (www.braeburnonline.com) for more information, contact your local distributor or call our sales department toll-free at 866.268.5599 (U.S.), +1.630.844.1968 (Outside the U.S.).

Date: _____
 Job Name: _____
 Location: _____
 Contractor: _____

Engineer: _____
 Model No.: _____
 Submitted By: _____
 Submitted For Approval: _____ Record: _____