

Contractors appreciate smooth HVAC installations while consumers look for a fine balance between temperature comfort and energy savings.

The Robertshaw® wall thermostats and humidistats offer all of the above. With its extensive yet focused product offering, the Robertshaw product line can deliver intuitive, feature-rich and efficient solutions for homeowners and commercial customers.

Programmable	E2
Non-Programmable.....	E9
Mechanical	E15
Line Voltage	E19
Humidity Controls.....	E20



Wall Thermostats





Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference

California Title 24 Compliant



9825i2



9025i

PROGRAMMABLE

i2 Deluxe Series

The Robertshaw® i2 Series Programmable Thermostats are easy-to-install and program. Our patent pending Set-Up Wizard can help you spend 50% less installation time over competitive models. Feature-rich, the 9801i2 and 9825i2 thermostats can be used with the 9025i outdoor sensor to maintain comfort settings and indoor humidity levels while minimizing window condensation.

Features and Benefits

All i2 Series Programmable Thermostats feature:

- Set-Up Wizard
- 7-Day, 5-2, 5-1-1 or 24 hour programming
- 2, 4, 6 Events per day
- Programmable service reminders
- Trilingual display options
- Worry-free memory storage
- Contractor ID with programmable service schedule
- Indoor/Outdoor remote sensor capability
- Adjustable temperature differential
- Adjustable timed upstaging

9801i2 and 9825i2 Thermostats with Humidity Control have these additional features:

- Adjustable humidification and dehumidification set points
- Automatic humidification control (when coupled with the remote outdoor sensor)
- Adjustable overcooling limits
- Customizable dew point control

9020i and 9025i Indoor and Outdoor Sensors features:

- Designed to sense air temperature at a remote location up to 300 feet from thermostat
- Automatic configuration with i2 thermostats
- Installs with a simple twisted pair wiring
- Temperature range for 9025i Outdoor sensor is -40°F to 158°F (-40°C to 70°C)

Wall Thermostats



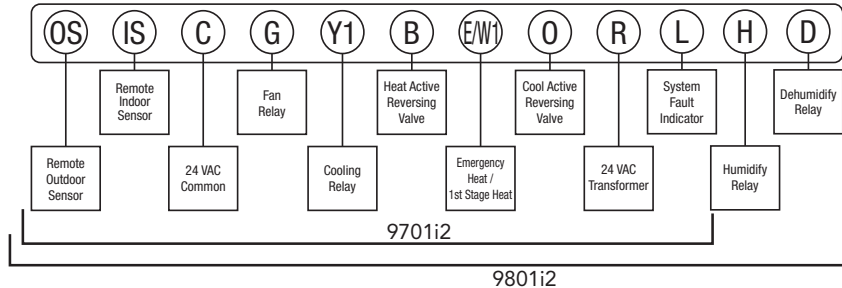
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Specifications

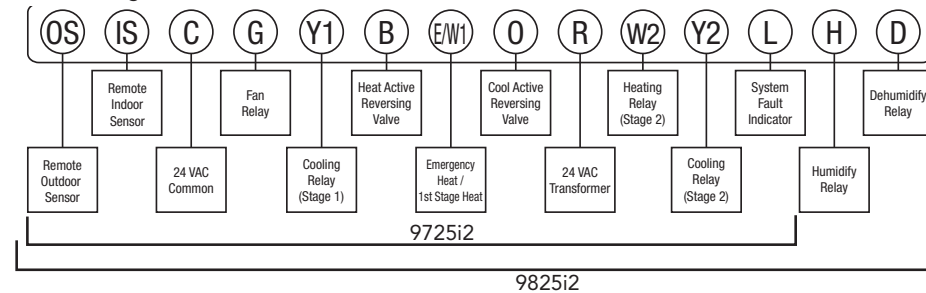
Part Numbers	Description	Application	Temperature Range / Accuracy	Auto Changeover Deadband	Temporary Temperature Override	Electrical Rating
9701i2	7 Day Programmable	1 Heat / 1 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9725i2	7 Day Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9801i2	7 Day Programmable with Humidity Control	1 Heat / 1 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9825i2	7 Day Programmable with Humidity Control	Universal Staging up to 3 Heat / 2 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9020i	Indoor Sensor	For use with i Series and i2 Series Thermostats	NA	NA	NA	NA
9025i	Outdoor Sensor	For use with i Series and i2 Series Thermostats	-40°F to 158°F (-40°C to 70°C)	NA	NA	NA

Product Drawings

Terminal Designations 9701i2 and 9801i2



Terminal Designations 9725i2 and 9825i2



5 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



RS6320

PROGRAMMABLE

RS6000 and RS5000 Value Series

The Robertshaw® RS6000 and RS5000 Series Programmable Thermostats offer 7 day and 5-2 day models with enhanced features, energy saving setpoints, and value pricing. When powered-up, the thermostat initiates the Pop-up Wizard with step-by-step installation instructions to save time. All models cover a wide range of applications that are fully compatible with gas and electric furnaces, and heat pumps. Universal control is available on multi-stage systems.

Features and Benefits

- Pop-up Wizard
- Auto changeover
- Bigger, brighter backlight with nightlight option
- Easy change battery access
- Circulating fan
- Low temperature freeze protection
- Adjustable temperature differential and upstaging

RS6000 Series 7 Day have these additional features:

- Universal control available on RS6220 and RS6320
- Copy command for easy programming

RS5000 Series 5-2 Day have these additional features:

- Universal control available on RS5220
- Vacation setpoint

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS5110	5-2 Day Programmable	1 Heat / 1 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS5220	5-2 Day Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS5220C*	5-2 Day Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6110	7 Day Programmable	1 Heat / 1 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6220	7 Day Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6320	7 Day Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6320C*	7 Day Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

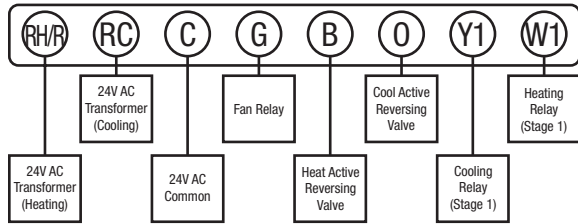
California Title 24 Compliant



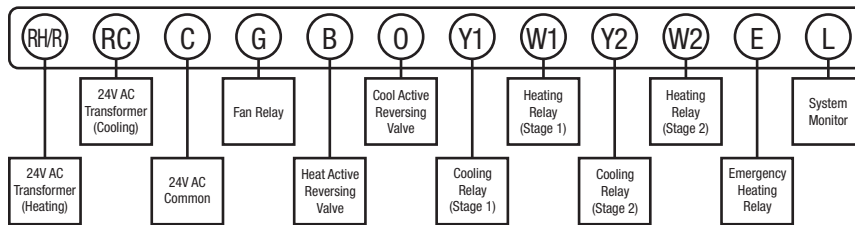
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Product Drawings

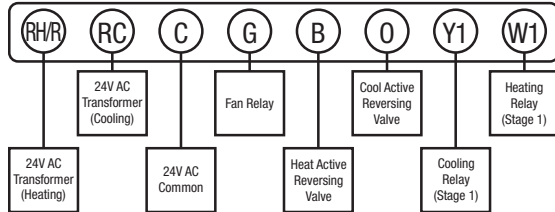
Terminal Designations RS5110



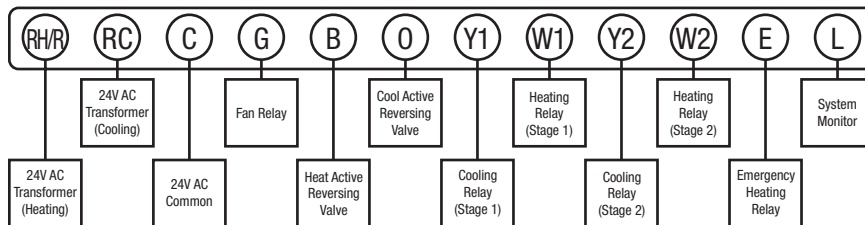
Terminal Designations RS5220



Terminal Designations RS6110



Terminal Designations RS6220 and RS6320





Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



RS3110

PROGRAMMABLE

RS3000 Economy Series

The Robertshaw® RS3000 Series Programmable Thermostats provide temperature control to help reduce energy costs up to 25%. The RS3000 family provides custom program options in value-packed thermostats for an economical price. All models are fully compatible with all standard 24V AC heating and cooling systems.

Features and Benefits

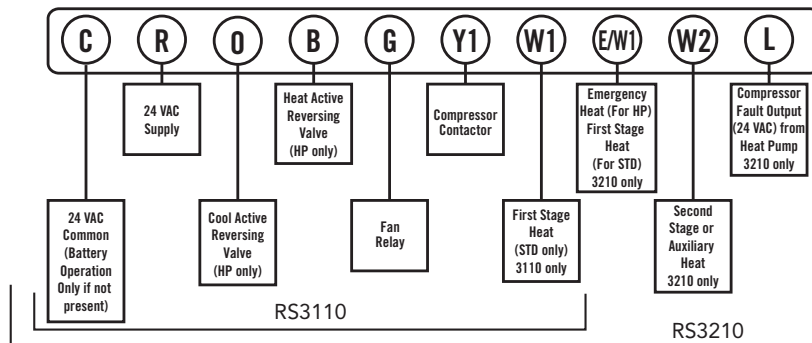
- New improved display
- Adjustable temperature differential
- Filter monitor
- O and B terminals
- Automatic compressor short cycle protection
- Zone system compatible
- Quick Wire terminal block
- Worry-free memory retention on RS3210 only

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS3110	5-2 Day Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS3110C*	5-2 Day Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS3210	5-2 Day Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS3210C*	5-2 Day Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

Product Drawings Terminal Designations RS3110 and RS3210



2 Year Limited Warranty

California Title 24 Compliant



PROGRAMMABLE

300 Series

The Robertshaw® 300 Series Programmable Thermostats offer a contemporary design with a large, easy-to-read LCD display. The 300 Series features a lockable key pad and door that offer security against unwanted tampering. Select models have O and B terminals for use with heat pumps or controlling dampers and fresh air economizers. It also can connect to remote indoor and outdoor sensors for added indoor comfort. The compressor short cycle protection reduces wear and tear to HVAC equipment.

Features and Benefits

- Auto changeover
- 3-hour override allows temporary adjustment of temperature
- Automatic compressor short cycle protection
- Multiple remote sensor capable



300-224



10-528

Robertshaw[®]



Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Auto Changeover Deadband	Temporary Temperature Override	Electrical Rating
300-224	5-2 Day Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
300-225	7 Day Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
300-227	7 Day Programmable	3 Heat / 2 Cool or 2 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
300-229	7 Day Programmable	2 Heat / 2 Cool or 2 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
10-528	Indoor Sensor	NA	NA	NA	NA	NA
10-529	Outdoor Sensor	NA	NA	NA	NA	NA

2 Year Limited Warranty

California Title 24 Compliant

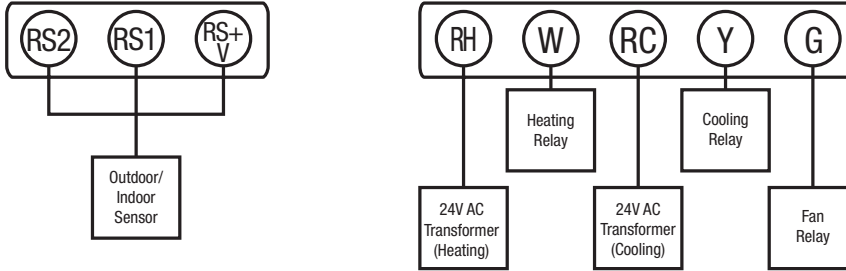


Wall Thermostats

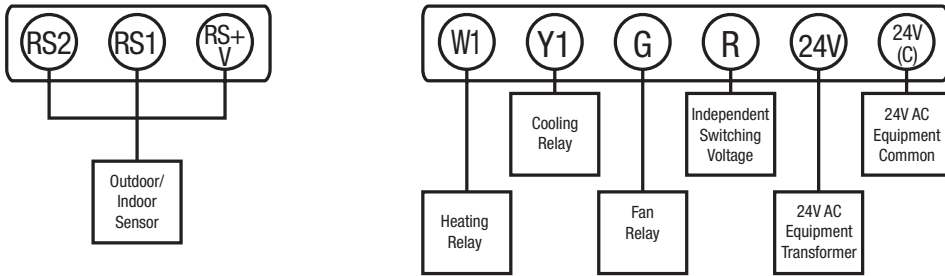
Robertshaw®

Product Drawings

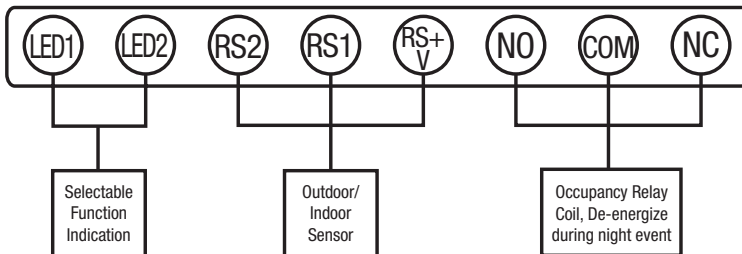
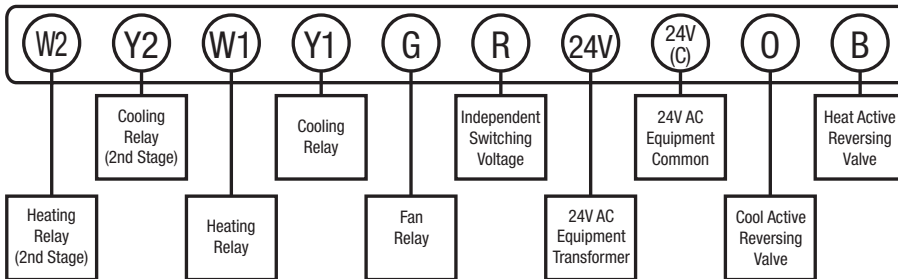
Terminal Designations - 300-224



Terminal Designations - 300-225



Terminal Designations - 300-227 and 300-229





NON-PROGRAMMABLE

RS4000 Value Series

The Robertshaw® RS4000 Series Non-Programmable Thermostats are Simply the Right Choice™ when it comes to automatic temperature control at an affordable price. When powered up, the thermostat initiates the Pop-up Wizard to walk the installer through the set-up in simple language. Three models cover a wide range of applications that are fully compatible with gas and electric furnaces, and heat pumps. Each model can be powered with either two AA batteries or 24V AC common.

Features and Benefits

- Pop-up Wizard
- Auto changeover
- Bigger, brighter backlight with nightlight option
- Easy change battery access
- Circulating fan
- Low temperature freeze protection
- Adjustable temperature differential and upstaging

RS4220 and RS4320 Thermostats have these additional features:

- Universal control with compatibility to multi-stage gas/ electric furnaces and heat pumps



RS4110

Robertshaw[®]



Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS4110	Digital Non-Programmable	1 Heat / 1 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4220	Digital Non-Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4220C*	Digital Non-Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4320	Digital Non-Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4320C*	Digital Non-Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

5 Year Limited Warranty

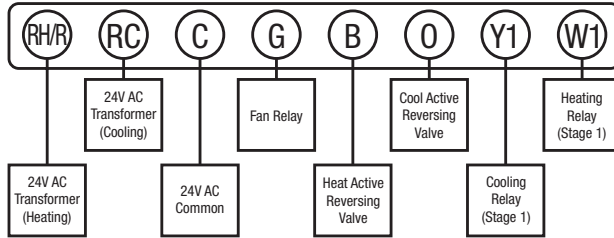


Wall Thermostats

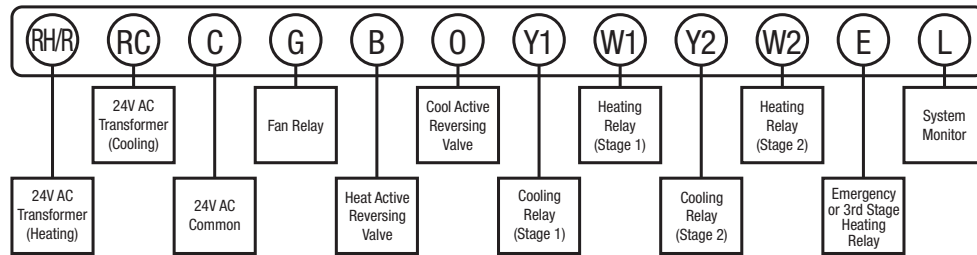
Robertshaw®

Product Drawings

Terminal Designations RS4110



Terminal Designations RS4220 and RS4320





Robertshaw[®]



Scan for all models, literature and cross reference

NON-PROGRAMMABLE

RS2000 Economy Series

The Robertshaw[®] RS2000 Series Non-Programmable Thermostats are fully compatible with all standard 24V AC heating and cooling systems. With the comfort, convenience and efficiency features that contractors and homeowners want, our Economy Series is a perfect cost effective solution.

Features and Benefits

- New improved display
- Adjustable temperature differential
- Filter monitor
- Automatic compressor short cycle protection
- O and B terminals
- Zone system compatible
- Quick wire terminal block



RS2110

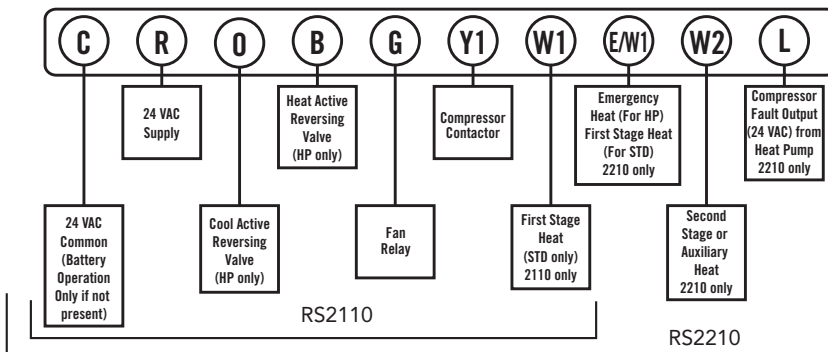
Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS2110	Digital Non-Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS2110C*	Digital Non-Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS2210	Digital Non-Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS2210C*	Digital Non-Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

Product Drawings

Terminal Designations RS2110 and RS2210



2 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



300-201



10-528

NON-PROGRAMMABLE

300 Series

The Robertshaw® 300 Series Non-Programmable Thermostats offer a contemporary design with a large, easy-to-read LCD display. The 300 Series has features that users need like a lockable key pad and door that offer security against unwanted tampering. Select models have O and B terminals for use with heat pumps or controlling dampers and fresh air economizers. Also, it can connect to remote indoor and outdoor sensors for added indoor comfort. The compressor short cycle protection reduces wear and tear to HVAC equipment.

Features and Benefits

- Automatic compressor short cycle protection
- O and B terminals on select models
- Occupied and unoccupied mode allows for different setting for day and night (Not included on 300-204)
- Multiple remote sensor capable (Not included on 300-204)

Specifications

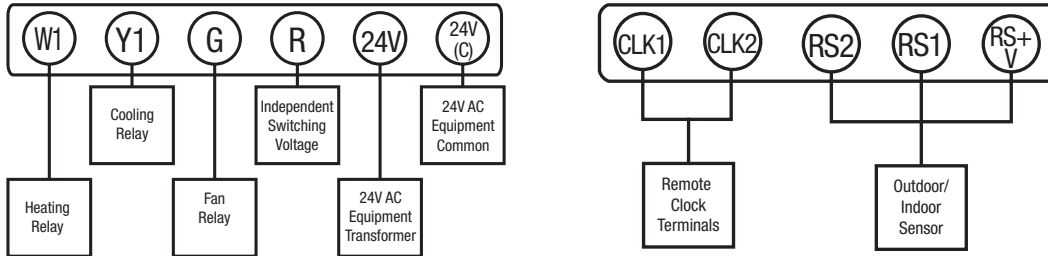
Part Numbers	Description	Application	Temperature Range / Accuracy	Auto Changeover Deadband	Temporary Temperature Override	Electrical Rating
300-201	Digital Non-Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-202	Digital Non-Programmable	3 Heat / 2 Cool or 2 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-203	Digital Non-Programmable	2 Heat / 2 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-204	Digital Non-Programmable	Heat only, Gas systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-205	Digital Non-Programmable	Cool only, Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-206	Digital Non-Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-207	Digital Non-Programmable	1 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-208	Digital Non-Programmable	2 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
10-528	Indoor Sensor	NA	NA	NA	NA	NA
10-529	Outdoor Sensor	NA	NA	NA	NA	NA



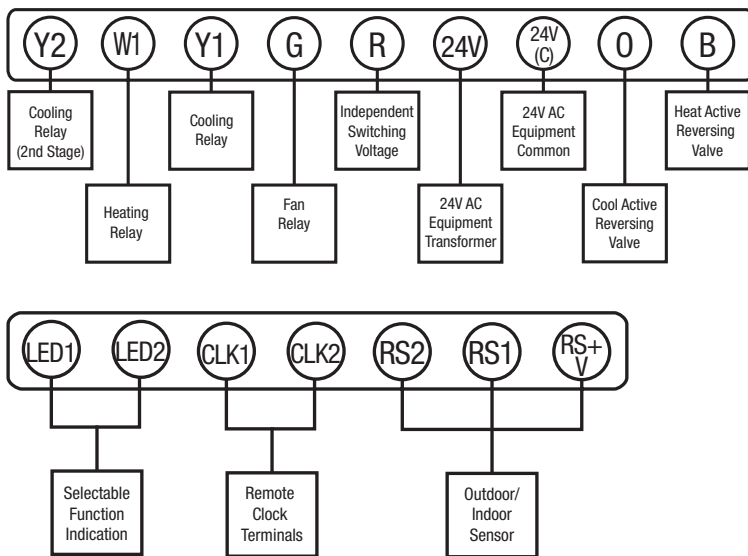
Robertshaw®

Product Drawings

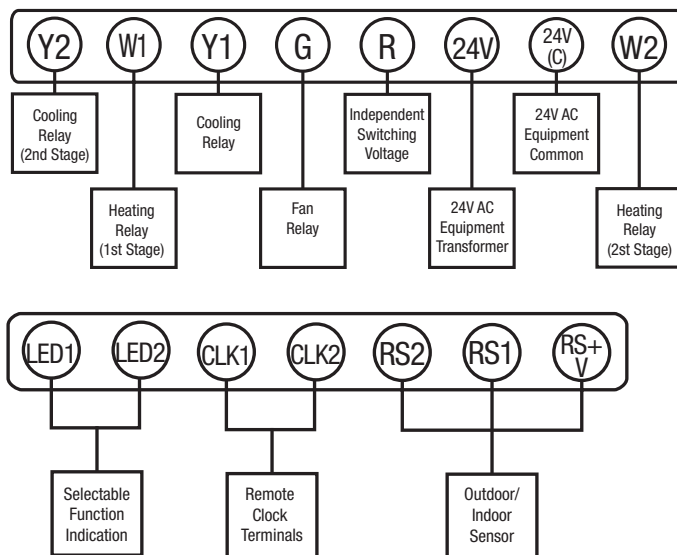
Terminal Designations - 300-201



Terminal Designations - 300-202



Terminal Designations - 300-203



2 Year Limited Warranty

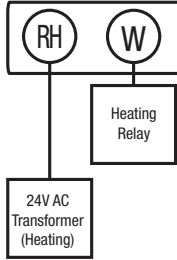


Wall Thermostats

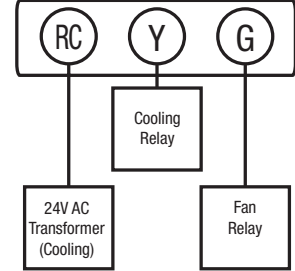
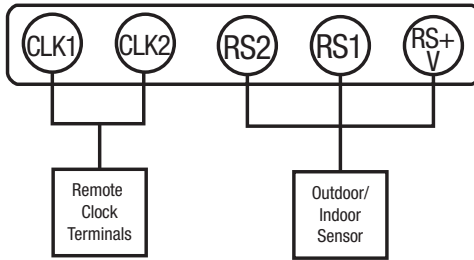
Robertshaw®

Product Drawings

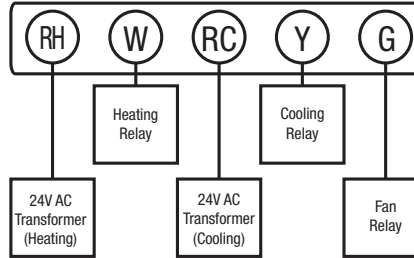
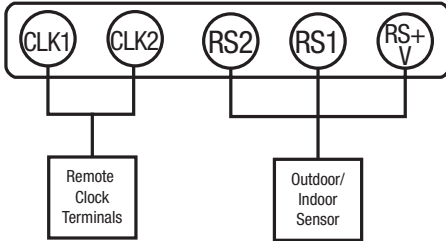
Terminal Designations - 300-204



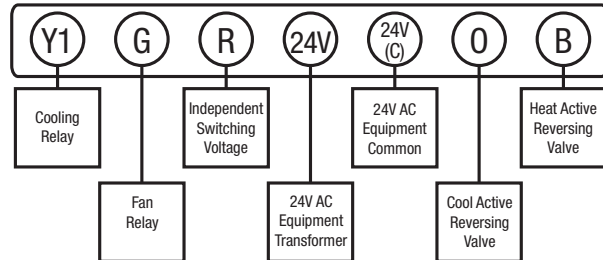
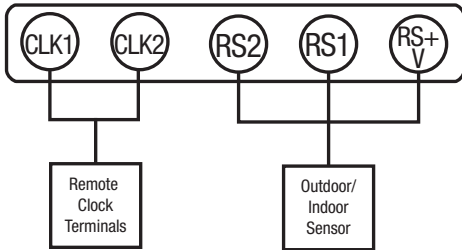
Terminal Designations - 300-205



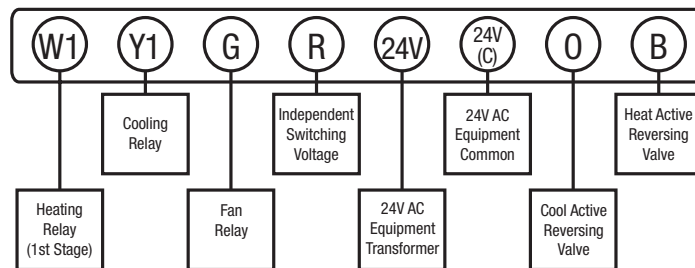
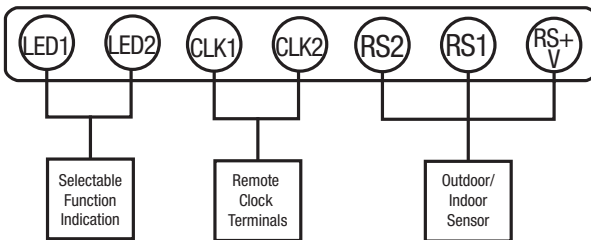
Terminal Designations - 300-206



Terminal Designations - 300-207



Terminal Designations - 300-208





MECHANICAL

9200 Series

The Robertshaw® 9200 Series Mechanical Thermostats are both attractive and functional. The temperature display is easy-to-read and offers accurate room temperature measurement. The simple two-piece design saves time at installation. Four Robertshaw 9200 series thermostats replace over 50 competitive models, so less inventory is needed to meet each job requirement.

Features and Benefits

- Heavy-duty adjustable heat anticipation - More anticipation settings to choose from allows use on a wider range of heating equipment
- No sub-base required - Simple base and cover design speeds installation. Base can be mounted on wall, freeing both hands for wiring
- Mercury-free - No leveling required. Speeds up installation time
- J-Box compatible - Not only will it meet code, but it speeds up installation
- Positive-off switch - Assured shutdown of HVAC system (9200)



Robertshaw[®]



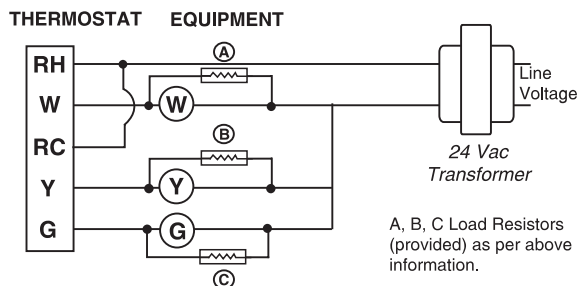
Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Switch Action	Temperature Range / Accuracy	Anticipation	Fixed Cooling Anticipation	Electrical Rating
9200H	Mechanical, Horizontal model	1 Heat / 1 Cool, Gas, Electric Systems (System Switch and Fan Switch Included)	SPDT	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max
9200V	Mechanical, Vertical model	1 Heat / 1 Cool, Gas, Electric Systems (System Switch and Fan Switch Included)	SPDT	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max
9204H	Mechanical, Horizontal model	1 Heat, Gas, Electric Systems	SPST	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max
9204V	Mechanical, Vertical model	1 Heat, Gas, Electric Systems	SPST	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max

Product Drawings

Wiring Diagram



1 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



400-420



MECHANICAL

400 Series

The Robertshaw® 400 Series Mechanical Thermostats are mercury-free, so they require no leveling and no special disposal requirements. For flexibility on-site, the fully adjustable heat anticipator can be used on a wide range of heating equipment.

Used with a 400 Series Universal Switching Sub-base, the 400 Series Thermostats are compatible with most 24 Volt AC heating and cooling systems. A decorative wall plate is included to aid in covering previous thermostat mounting marks. To complement any decor, choose from beige or white.

Features and Benefits

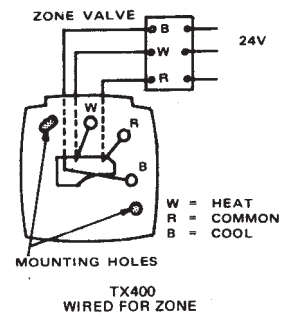
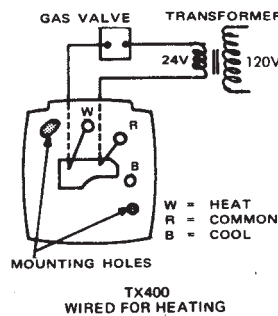
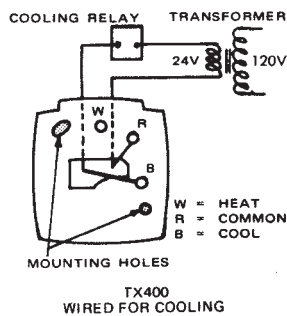
- Heavy-duty adjustable heat anticipator - More anticipation settings to choose from allows use on wider range of heating equipment
- Mercury-free - No leveling required. Speeds up installation time
- Positive-off switch - Assured shutdown of HVAC system
- Fixed cooling anticipation - Maintains optimal cooling comfort
- Opens on temperature rise for heating, closes on temperature rise for cooling

Specifications

Part Numbers	Description	Application	Thermometer Range / Accuracy	Switch Action	Heat Anticipation Range	Fixed Cooling Anticipation	Electrical Rating
400-420	Mechanical with 490-400 Universal sub-base, Beige	Universal Heating / Cooling replacement	44°F to 96°F (7°C to 36°C) / +/-2°F (+/-1°C)	SPDT	0.18 to 1.0 Amp	4700 ohms	24V AC, 1.5 Amps max load (all terminals combined)
405-420	Mechanical with 495-400 Universal sub-base, White	Universal Heating / Cooling replacement	44°F to 96°F (7°C to 36°C) / +/-2°F (+/-1°C)	SPDT	0.18 to 1.0 Amp	4700 ohms	24V AC, 1.5 Amps max load (all terminals combined)

Product Drawings

Wiring Diagram



1 Year Limited Warranty



MECHANICAL

200 Series

The Robertshaw® 200 Series Mechanical Thermostats are decorator designed and engineered for outstanding performance. The 200 Series Thermostats are mercury-free and environmentally safe. Their unique hermetically sealed-in-glass switch design requires no leveling and provides optimum protection from contamination.

Models are available for 24 volt and millivolt applications. Models are also available for low temperature heating ranges, cooling only, and 3-wire zone applications. A decorative wall plate is included with all models to cover old thermostat mounting marks.

Features and Benefits

- Heavy-duty adjustable heat anticipator - More anticipation settings to choose from allows use on a wider range of heating equipment
- Mercury-free - No leveling required to speed up installation
- Positive-off switch - Assured shutdown of HVAC system
- Fixed cooling anticipation - Maintains optimal cooling comfort



200-401

Robertshaw®



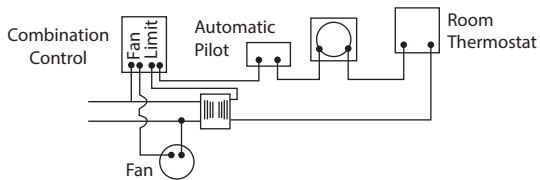
Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Thermometer Range / Accuracy	Switch Action	Heat Anticipation Range	Fixed Cooling Anticipation	Electrical Rating
200-401	Mechanical	2 Wire, 24 Volt Heating	44°F to 96°F (7°C to 36°C) / +/-2°F (+/-1°C)	SPST	0.18 to 1.0 Amp	4700 ohms	24V AC, 1.0 Amp max

Product Drawings

Gas Valve or Two-Wire Oil Burner or Stoker Relay



1 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



988-1R

MECHANICAL

900 Series

The Robertshaw® 900 Series Mechanical Thermostats are low cost controls with highly reliable performance. The two-piece design is simple to install to save valuable time. The large display is easy-to-read and switches on the front cover are readily accessible to adjust for comfort. Wall plates are available to mask any unsightly marks left by previous thermostats.

Features and Benefits

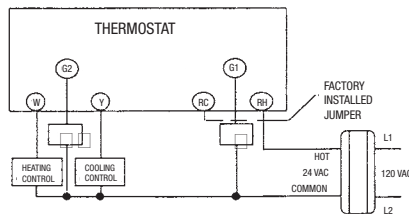
- Accurate room temperature - Built-in thermometer accurately displays room temperature
- Adjustable heat anticipation - Multiple anticipation settings supports a wide range of heating equipment
- No sub-base required - Base can be mounted on wall to free both hands for wiring
- Mercury-free - No leveling or special disposal required
- J-Box compatible - Code compatible to speed up installation
- Positive off Switch - Assured shutdown of HVAC system
- Fixed cooling anticipation - Optimal cooling comfort maintained

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Anticipation	Electrical Rating
986-1R	Mechanical	Heat Only, Electric, Gas, Millivolt	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.1 to 1.2 Amps	24V AC and 250-750 mV, 1.5 Amps max load (all terminals combined)
988-1R	Mechanical	1 Heat / 1 Cool, Electric, Gas, Millivolt	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.1 to 1.2 Amps	24V AC and 250-750 mV, 1.5 Amps max load (all terminals combined)

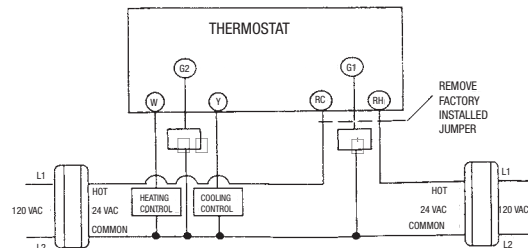
Product Drawings

One Transformer - Models 986-1R, 988-1R



Fan control for gas or oil heating systems
 Fan control for electric heating systems

Two Transformers - Models 988-1R



Fan control for gas or oil heating systems
 Fan control for electric heating systems

1 Year Limited Warranty



LINE VOLTAGE

800 Series

The Robertshaw® 800 Series Line Voltage Thermostats are universal replacements for many other brands and can be used to retrofit most existing electric heat thermostats. With models for heating that include single-line break and double-line break as well as a single-line break cooling model, there is one for every application.

Features and Benefits

- Convenient temperature display - View comfort level at-a-glance
- Bimetal temperature sensing - For improved thermal performance
- Mercury-free - No leveling or special disposal required
- J-Box compatible - Not only will it meet code, but it speeds up installation
- Positive-off switch - Assured shutdown of HVAC system
- Universal replacement - Can retrofit most existing electric heat thermostats



801

Robertshaw[®]



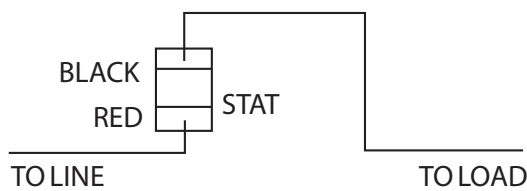
Scan for all models, literature and cross reference

Specifications

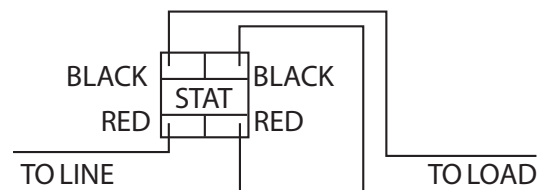
Part Numbers	Description	Application	Temperature Range / Accuracy	Switch Action	Electrical Rating
801	Line Voltage	Heating	50°F to 90°F (10°C to 32°C) / +/-2°F (+/-1°C)	SPST	120 / 240 / 277 Volts, Non-Inductive, 1/4 HP @ 120V AC, 1/3 HP @ 240V AC, 125 VA Pilot Duty
802	Line Voltage	Heating	50°F to 90°F (10°C to 32°C) / +/-2°F (+/-1°C)	DPST	120 / 240 / 277 Volts, Non-Inductive, 1/4 HP @ 120V AC, 1/3 HP @ 240V AC, 125 VA Pilot Duty
803	Line Voltage	Cooling	50°F to 90°F (10°C to 32°C) / +/-2°F (+/-1°C)	SPST	120 / 240 / 277 Volts, Non-Inductive, 1/4 HP @ 120V AC, 1/3 HP @ 240V AC, 125 VA Pilot Duty

Product Drawings

Single Pole Thermostat - Model 801,803



Double Pole Heating Thermostat - Model 802



1 Year
Limited
Warranty



Wall Thermostats

RANCO®



Scan for all models, literature and cross reference



J10-808

HUMIDITY CONTROLS

J10 Series Humidistats

The Ranco® J10 Series Humidistats are designed to regulate the relative humidity of confined spaces by cycling humidifying equipment. They can be used either as internal components for portable humidifiers and dehumidifiers, or as mounted humidity controls for central systems.

The J10 is a relative humidity control, consisting of a humidity sensing element, adjustable set-point cam and electrical switch. The sensing element changes length in response to the exposed RH to move the switch mechanisms at appropriate switch points.

Features and Benefits

- Strong beige plastic frame with integral switch
- Improved woven nylon sensing element provides 12 times faster speed of response than film nylon elements
- Greater stability of setpoints over dramatic changes in relative humidity
- Switch grade plastic frame eliminates the need for grounding the control
- Choice of (2) SPST and (2) SPDT switches to better match applications
- Choice of fixed or adjustable setpoint
- Choice of dial shaft flat orientation
- Gold-plated contacts available for microprocessor load applications
- Available with case and cover for wall/duct mounting

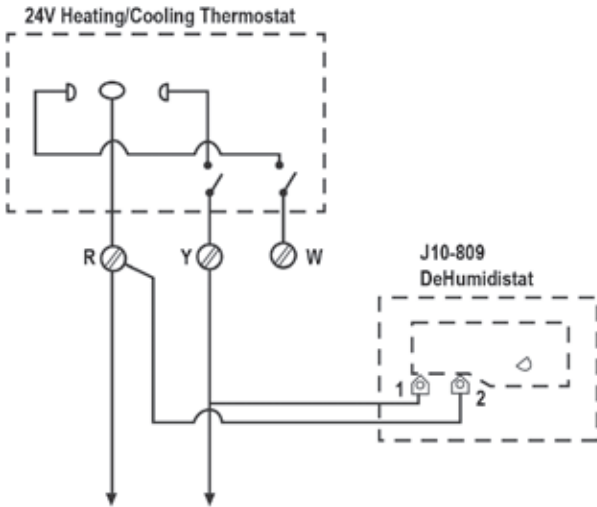
Specifications

Part Numbers	Description	Application	Relative Humidity Range	Temperature Range	Differential	Control Cycle Rating	Electrical Rating
J10-808	Humidistat	Wall / Duct Mount	10 to 60%	32°F to 140°F (0°C to 60°C)	5% to 15% RH	Automatic switch cycles @ 140°F (60°C) 50000. Manual dial shaft cycles 6000.	24V AC / 60V AC
J10-809-W	Dehumidistat, White model	Wall Mount	20 to 80%	32°F to 140°F (0°C to 60°C)	5% to 15% RH	Automatic switch cycles @ 140°F (60°C) 50000. Manual dial shaft cycles 6000.	24V AC / 60V AC
J10-810	Dehumidistat, Vertical model	Wall Mount	20 to 80%	32°F to 140°F (0°C to 60°C)	5% to 15% RH	Automatic switch cycles @ 140°F (60°C) 50000. Manual dial shaft cycles 6000.	24V AC / 60V AC

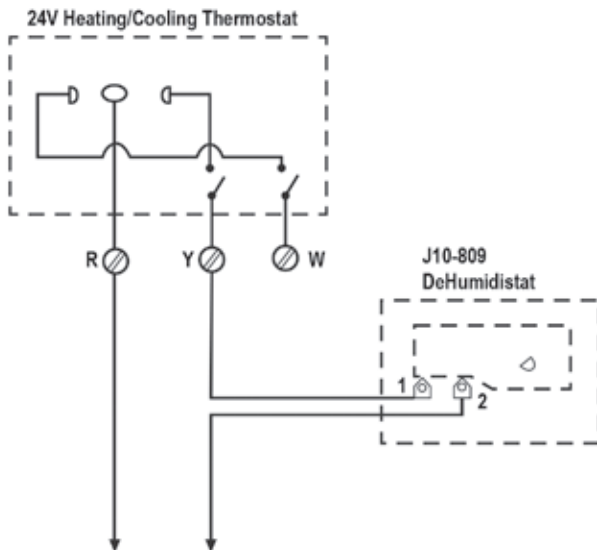


Product Drawings

Wiring Diagram - Parallel Installation



Wiring Diagram - Series Installation



1 Year
Limited
Warranty