Thermostats - Commercial



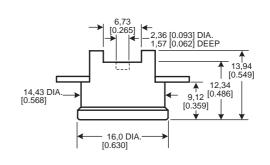
Commercial thermostats include products for use in a wide array of small and major appliances, automotive applications, office copy machines, heat and smoke detectors and HVAC equipment. These snap-action thermostats include automatic or manual reset options, phenolic or ceramic housings, and a variety of mounting brackets and terminal options.

NOTE: The products in this section do not follow the "how to use this catalogue" instructions provided in the catalogue introduction. Specific reference numbers are not given due to their custom nature. Please contact your local Honeywell sales office for ordering information.

2450R/2450HR/2455R Series Phenolic Automatic Reset Thermostats

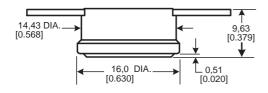
A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. Response to temperature changes is extremely rapid due to the inherently low mass of the disc and the small size of the product. These products are factory calibrated to the customer's specification.

2450HR



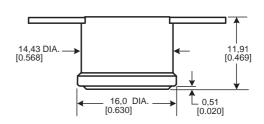
SERIES NAME 2450HR Phenolic Automatic Reset Thermostat

2450R



SERIES NAME
2450R Phenolic Automatic Reset Thermostat

2455R

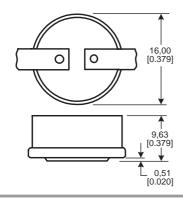


SERIES NAME
2455R Phenolic Automatic Reset Thermostat

2450RC/2450RCH/2455RC Series Ceramic Automatic Reset Thermostats

A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. Response to temperature changes is extremely rapid due to the inherently low mass of the disc and the small size of the product.

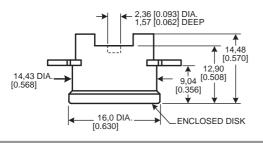
2450RC



SERIES NAME

2450RC Ceramic Automatic Reset Thermostat

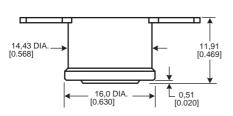
2450RCH



SERIES NAME

2450RCH Ceramic Automatic Reset Thermostat

2455RC



SERIES NAME

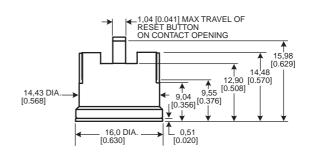
2455RC Ceramic Automatic Reset Thermostat

2450CM/2455RM Series Ceramic and Phenolic Manual Reset Thermostats

A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. The circuit will stay open above room ambient temperature until the manual reset button is pressed. Response to temperature changes is extremely rapid due to the inherently low mass of the disc and the small size of the product.

Reset type: Manual Amperage capacity: 15 A resistive max. Housing material: Ceramic or phenolic Operating temperature range: 52 °C to 232 °C [125 °F to 450 °F] (ceramic) 52 °C to 150 °C [125 °F to 302 °F] (phenolic) Environmental exposure range: 10 °C to 260 °C [50 °F to 500 °F] (ceramic) 10 °C to 177 °C [50 °F to 350 °F] (phenolic)

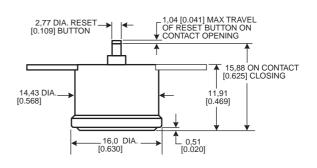
2450CM



SERIES NAME

2450CM Ceramic Manual Reset Thermostal

2455RM



SERIES NAME

2455RM Phenolic Manual Reset Thermostat

2450A/2455A Series Heat Detection Thermostats

The gold contacts open or close on a temperature rise of 47 $^{\circ}$ C to 107 $^{\circ}$ C [117 $^{\circ}$ F to 225 $^{\circ}$ F].

Reset type:

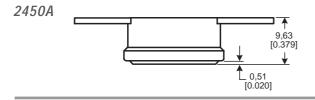
Automatic
Amperage capacity:

Housing material:

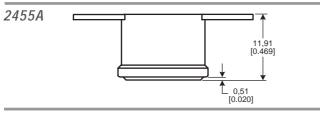
Phenolic, epoxy-sealed cap and terminal
Operating temperature range:

47 °C to 107 °C [117 °F to 225 °F]
Environmental exposure range:

0 °C to 150 °C [32 °F to 302 °F]



SERIES NAME 2450A Heat Detection Thermostat



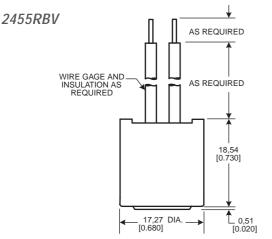
SERIES NAME

2455A Heat Detection Thermostat

2455RBV Series Overmolded Automatic Reset Thermostats

A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. Response to temperature changes is extremely rapid due to the inherently low mass of the disc and the small size of the product.

Reset type: Automatic
Amperage capacity: 15 A resistive max.
Housing material: Ceramic or phenolic, epoxy overmold
Operating temperature range: -12 °C to 105 °C [10 °F to 221 °F]
Environmental exposure range: -18 °C to 121 °C [0 °F to 250 °F]



SERIES NAME

2455RBV Overmolded Automatic Reset Thermostat

2450R/2450RCH/2455R/2455RC Series "One-shot" ½ in Thermostats

Products are designed for high limit applications where automatic reset is not desired.

Reset type:

Amperage capacity:

Housing material:

Operating temperature range:

Solution

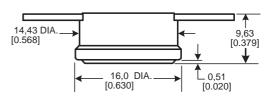
15 A resistive max.

ceramic or phenolic ceramic or phenolic or phen

52 °C to 150 °C [125 °F to 302 °F] (phenolic) :: 18 °C to 316 °C [0 °F to 600 °F] (ceramic)

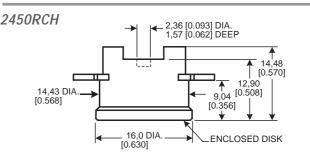
Environmental exposure range: 18 °C to 316 °C [0 °F to 600 °F] (ceramic) 18 °C to 177 °C [0 °F to 350 °F] (phenolic)

2450R



SERIES NAME

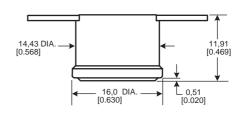
2450R Phenolic "One-shot" 1/2 in Thermostat



SERIES NAME

2450RCH Ceramic "One-shot" ½ in Thermostal

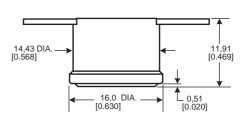
2455R



SERIES NAME

2455R Phenolic "One-shot" ½ in Thermostat

2455RC



SERIES NAME

2455RC Ceramic "One-shot" ½ in Thermostat

2450R Series Annular Ring Cap Automatic Reset Thermostats

A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. Response to temperature changes is extremely rapid due to the inherently low mass of the disc and the small size of the product.

Reset type:

Automatic
Amperage capacity:

Housing material:

Phenolic, can be partially or totally sealed
against water ingress

Operating temperature range:

-10 °C to 55 °C [14 °F to 131 °F]

Environmental exposure range:

-40 °C to 130 °C [-40 °F to 266 °F]

Life Cycle Capability:

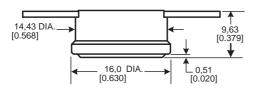
Low Temperature Differential:

Switch Temperature Tolerance:

300 K at 12 Vdc, 10 A

Down to 8 °C [46 °F]

±3 °C



SERIES NAME

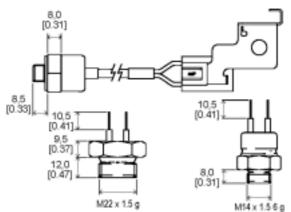
2450R Phenolic Annular Ring Cap Automatic Reset Thermostat

2450R/2455R Series Protected Thermostats

A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. Basic thermostat is protected from the environment by sealing it in a metal housing or encapsulating it in epoxy.

Reset type:
Automatic
Amperage capacity:
Housing material:
Operating temperature range:
Environmental exposure range:

Automatic
15 A resistive, 12 Vdc
Brass, aluminium, stainless steel and epoxy
15 °C to 130 °C [59 °F to 266 °F]
-40 °C to 155 °C [-40 °F to 311 °F]



SERIES NAME

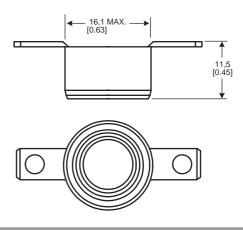
2450R Protected Thermostat 2455R Protected Thermostat

2450R Series Fully Sealed Thermostats

A temperature-sensitive bimetal disc, electrically isolated from the switch, actuates the normally closed contacts. The contacts open when the surface or ambient temperatures increase to the operating snap point of the calibrated disc. Response to temperature changes is extremely rapid due to the inherently low mass of the disc and the small size of the product.

Reset type: Amperage capacity: Housing material:

Operating temperature range: Environmental exposure range: Life cycle capability: Low temperature differential: Switch temperature tolerance: Automatic
15 A resistive, 12 Vdc
Phenolic housing, aluminium cap totally
encapsulated in water resistant epoxy
-10 °C to 55 °C [14 °F to 131 °F]
-40 °C to 130 °C [-40 °F to 266 °F]
300 K at 12 Vdc, 10 A
Down to 8 °C [46 °F]
±3 °C



ERIES NAME

2450R Fully Sealed Thermostat

- Temperature Sensors
- Thermal Cutoffs
- Thermistors & Probes
- Thermostats
 - >Redi-Temp
 Subminiature 3600
 - >Redi-Temp Series 3100 SPST Hermetic Series
 - >Redi-Temp 3455 RC 15 AMP High Temp. Series
 - >Bimetal Precision & Commercial Thermostats

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Bimetal Thermostats



The Honeywell bimetal thermostat product line consists of Single-Pole, Single-Throw (SPST) hermetic and non-hermetic thermostats, including low-silhouette, logic level, auto reset, manual reset, one-shot, and subminiature thermostats and thermal switches. These products are also defined by their ability to reliably maintain precision temperature tolerances or high

amperage electrical loads. They provide temperature control and overtemperature protection for the appliance, office automation, industrial, commercial aircraft and medical equipment industries.

Bimetal thermostats are snap-action devices designed to operate in extreme conditions, such as exposure to hazardous substances, dust particles and liquid immersion. Contacts are thermally and electrically isolated. Dust-proof performance is achieved by using a ceramic or phenolic base protected by a metal enclosure. A variety of custom configurations are available which provide environmental protection.

Select a product from one of the following bimetal categories:

- Precision Thermostats
- Commercial Thermostats

Precision Thermostats

→ Hermetic Th	Hermetic Thermostats				
Series	Features	Applications			
3100	Tight temperature tolerances and differentials available 6 A 120 Vac rating	Industrial glue guns Blood analyzers			
	Environmental exposure -62 ° C to 288 °C [-80 °F to 550 °F]	Battery pack heater			
3106	Gold alloy cross-point contacts for use in logic level circuits Tight temperature tolerances and differentials available	Solid state control backup			
3150	Low profile 7,7 mm [0.305 in] maximum design height 6 A 120Vac rating	Commercial aircraft avionics Power supplies			
	Tight temperature tolerances and differentials available	Copy machine overheat protection			
3156	Gold alloy cross-point contacts for use in logic level circuits Low profile 7,7 mm [0.305 in] maximum design height UL recognized and CSA certified Tight temperature tolerances and differentials available	Dry circuit applications where space is limited			

→ Custom Packaged Thermostats Series Features Applications

Part Number Search

Search the Sensing and Control Interactive Catalog.

Keyword Search

Search for product and support information.

→ Advanced Search

3000	Customized probe length	Heater control
	Custom probe materialsMany termination/connector options	Aircraft bleed air Duct sensing Liquid bath control
		Hydraulic oil temperature control

\rightarrow	→ Non-Hermetic Thermostats			
	Series	Features	Applications	
	3001, 3004	Low profile and lightweight (Model 3001) European approved (3004 only) Tight temperature tolerances and differentials available	Computers Office equipment Blood analyzers	

Series Features Applications		Applications
3450, 3455R, 3455RBV	 Electrical rating to 15 A 120 Vac resistive UL recognized, CSA certified and European approved Single-pole, single-throw Environmental exposure for the 3450 & 3455R -18 °C to 177 °C [0 °F to 350 °F] Environmental exposure for the 3455RBV -18 °C to 121 °C [0 °F to 250 °F] 	Power supplies Communications equipment Medical equipment Computers (where high amperage loads are present)
3450RC, 3455RC	High temperature environmental exposure -18 ° C to 288 °C [0 °F to 550 °F] Electrical rating to 15 A 120 Vac resistive UL recognized, CSA certified and European approved Single-pole, single-throw	Communications equipment Computers (where high amperage loads are present) Medical equipment Appliances

→ Manual Reset Thermostats			
Series	Features	Applications	
3455RM, 3450CM	Manually resettable operation (reset button) Electrical rating to 15 A 120 Vac resistive UL recognized and CSA certified Environmental exposure 10 ° C to 177 °C [50 °F to 350 F]	Where automatic reset is not preferred	

Commercial Thermostats

→ Phenolic Thermostats				
Features	Applications			
15 A, 120 Vac; 10 A, 240 Vac	Copy machines			
UL recognized, CSA certified	Medical equipment			
Contacts are available for mV and mA applications Environmental exposure 0 °C	Power supplies			
	Features 15 A, 120 Vac; 10 A, 240 Vac UL recognized, CSA certified and European approved Contacts are available for mV and mA applications			

→ Ceramic Thermostats			
Series	Features	Applications	
2450RC, 2450RCH, 2455RC	 15 A 120 Vac; 10 A 240 Vac UL recognized, CSA certified and European approved Contacts are available for mV and mA applications Environmental Exposure 0 °C to 177 °C [32 °F to 350 °F] 	Office automation products Table-top applications Industrial equipment Appliances	

→ Manual Reset Thermostats				
Series	Features	Applications		
2455RM, 2450CM	 15 A, 120 Vac; 10 A, 240 Vac UL recognized, CSA certified and European approved Environmental Exposure for 2455RM -18 °C to 121 °C [0 ° F to 250 °F] Environmental exposure for 3450CM 10 °C to 260 °C [50 ° F to 500 °F] 	Office automation products Medical equipment		

Overmolded Automatic Reset Thermostats			
Series	Features	Applications	
2455RBV	15 A ,120 Vac; 8.3 A, 240 Vac	Industrial equipment	
	 UL recognized, CSA certified and European approved Environmental exposure -18 ° C to 121 °C [0 °F to 250 °F] 		

→ Heat Detection Thermostats			
Series	Features	Applications	
2450A, 2455RA	UL recognized	Heat detection	
	Environmental exposure 0 °C to 150 °C [32 °F to 302 °F]		

→ One-shot Thermostats			
Series	Features	Applications	
2450R, 2455R, 2450RC, 2455RC	 15 A, 120 Vac; 10 A, 240 Vac UL recognized, CSA certified and European approved Environmental exposure for 2450R & 2455R 0 °C to 177 °C [32 °F to 350 °F] Environmental exposure for 2450RC & 2455RC 0 °C to 	Automation equipment Tabletop appliances	

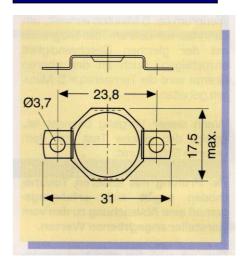
'Permanent Stock' of Thermostats Type 2455R

- Functions: Open on Rising Temperature, and Close on Rising Temperature
- Standard Mounting Bracket: B 203 S
- Terminals: horizontal T 146
- Operating Temperatures in 10° C Steps.
- Up to 15A and up to 250V AC
- Silver contact system

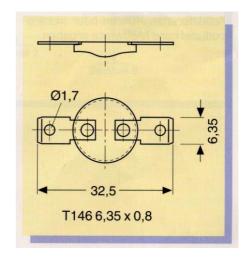
Part Number	Function			
	Open		Close	
	°C	+/-K	°C	+/-K
2455R- 100-84	30	3	15	4
2455R- 100-72	40	3	25	6
2455R- 100-73	50	3	35	6
2455R- 100-85	60	3	45	6
2455R- 100-74	70	3	55	6
2455R- 100-75	80	3	65	6
2455R- 100-76	90	3	75	6
2455R- 100-77	100	4	80	7
2455R- 100-86	110	4	90	7
2455R- 100-98	120	4	98	6
2455R- 100-88	130	4	110	8
2455R- 100-89	140	4	115	8
2455RC- 9100-373	150	7	120	8

	Close		Open	
	°C	+/-K	°C	+/-K
2455R- 100-78	50	3	35	6
2455R- 100-79	60	3	45	6
2455R- 100-92	80	3	65	6
2455R- 100-93	90	3	75	6
2455R- 100-94	100	4	80	7
2455R- 100-95	120	4	100	7
2455R- 100-96	140	4	115	8

Mounting Bracket B 203S



Terminals T 146



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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66F060-0099 66F060-0396 66L085-0477 67F080-0356 67L060-0368 67L080-0038 77877-00 ASP200-22 22636-00 2450 00210626 2450 00880010 2450RC 79080002 2455R--01000844 2455R 80580176 2455R 81610172 2455R--90820376 2455RA-94170955 2455RC-00980620 2455RCG81170352 2455RM03090005 2455RM 80820736 2455RM-90980499 2455RP-91000430 2455RP-91000433 2455RP-91000436 2455RP-91000442 300004530001 300100140436 300100630004 3001 00830006 2450G 83950014 2450RC-90820307 2455R-00030829 2455R--01000140 2455R 80820813 2455R 80820815 2455R 86890009 2455R--99130436 2455RA-04170929 2455RBV00290011 2455RC-01000545 2455RM 80820767 300000460015 300005510124 300100240048 310000011390 310000030602 310000031798 310000560067 310000010552