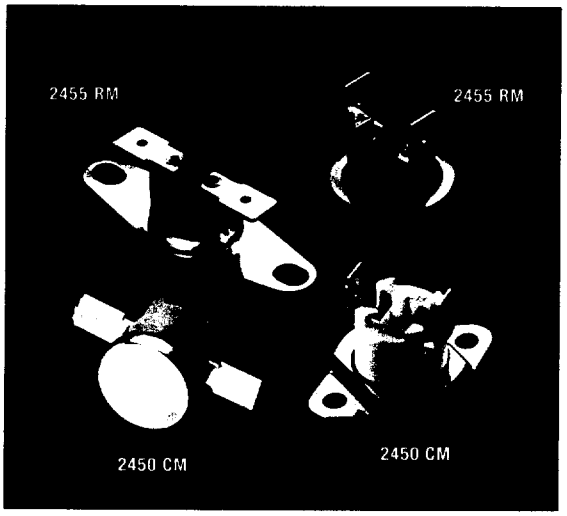
SERIES 2455RM(PHENOLIC)/2450CM(CERAMIC) MANUAL RESET THERMOSTATS

10530

Typical Applications:

- *HVAC Equipment*
- *Office Automation Products*
- *Medical Equipment*



A temperature-sensitive bimetal disc, electrically and thermally isolated from the switch, is used to actuate the normally-closed contacts. Contacts are opened when surface or ambient temperatures increase to the operating snap point of the calibrated bimetal disc. The entire switch is enclosed in a dust-free housing; the bimetal disc is retained by a metal heat-conducting end cap.

The circuit will remain open above room ambients until the manual reset button is depressed.

Due to the small size of this unit and the inherently low mass of the bimetal snap-action disc, response of this thermostat to temperature changes is extremely rapid, compared to other commercially available thermostatic devices. For increased sensitivity, an exposed bimetal disc may be specified.

To insure that a safe combination of thermostat and application is achieved, the purchaser must determine product suitability for their individual requirements.

RATINGS

MODEL	CYCLES	120VAC	240 VAC
2450CM		15 AMP	10 AMP
2455RM	6,000	4.4 FLA 26.4 LRA	2.2 FLA 13.2 LRA
		125 VA	125 VA

UL and CSA Listings

UL and CSA listings are for use in equipment where the acceptability of the combination of the thermostat and equipment is determined by Underwriter's Laboratories, Inc. and/or Canadian Standards Association.

UL File E36103	**Limitations–Type 2455RM and 2450CM are intended as a manual reset control. They are not to be used on applications where a limit thermostat is required unless back-up protection is provided. Units have been tested by UL for 1,000 cycles under load, 5000 cycles no load, and are not considered limit devices.**

FLA:Full Load Amp
LRA:Locked Rotor Amp
Contacts are available for millivolt and milliamp applications.

Key Features and Benefits

- *Low, compact profile*
- *High capacity up to 15 Amp Resistive*
- *Single-pole, single-throw*
- *Operation up to 450°F*
- *Single break contact action*
- *Factory-calibrated to your specification*
- *UL recognized, CSA certified and European approved.*
- *A.G.A. certified*

SERIES 2455RM(PHENOLIC)/2450CM (CERAMIC) MANUAL RESET THERMOSTATS

Standard Temperature Characteristics–2455RM

Temperature Set Point Ranges	Tolerance Allowable° ± at temperature set point ±°F	±°C	Automatic Reset Temperature *	
125 to 200°F (52 to 93°C)	8	5	Below 40°F(5°C)	I
201 to 250°F (94 to 121°C)	10	6	Below 40°F(5°C)	I
251 to 302°F (122 to 150°C)	12	7	Below 40°F(5°C)	I

*Can be reset manually when temperature drops approx. 30% below its operating temperature.
**Grouped according to level of accuracy required. Group I with the greatest latitude is less expensive than Group II, etc.
NOTE: *Temperature checking methods may be slightly different, and allowance for a 1°C variance should be considered.*
Standard reset pin will be supplied in red.

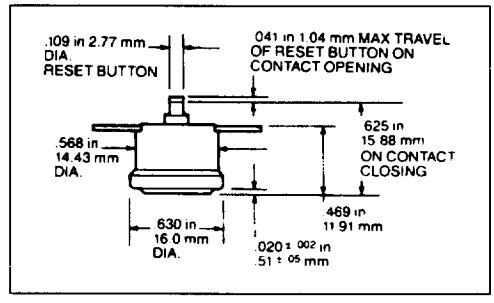
Standard Temperature Characteristics–2450CM

Temperature Set Point Ranges	Tolerance Allowable° ± at temperature set point ±°F	±°C	Automatic Reset Temperature *	
125 to 200°F (52 to 93°C)	8	5	Below 40°F(5°C)	I
201 to 250°F (94 to 121°C)	10	6	Below 40°(5°C)	I
251 to 300°F (122 to 149°C)	12	7	Below 40°F(5°C)	I
301 to 350°F (150 to 177°C)	15	8	Below 40°F(5°C)	I
351 to 400°F (177 to 204°C)	18	10	Below 40°F(5°C)	II
401 to 450°F (205 to 232°C)	20	11	Below 40°F(5°C)	II

*Can be reset manually when temperature drops approx. 30% below its operating temperature.
**Grouped according to level of accuracy required. Group I with the greatest latitude is less expensive than Group II, etc.
NOTE: *Temperature checking methods may be slightly different, and allowance for a 1°C variance should be considered.*
Standard reset pin will be supplied in white.

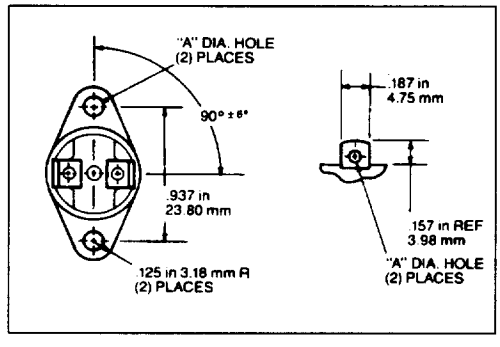
Dimensional Specifications

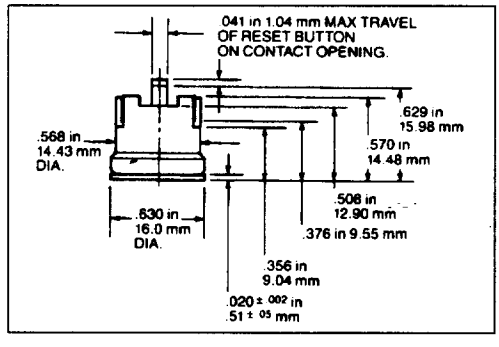
2455RM



See Terminal or Bracket Guides for other options.

2450CM

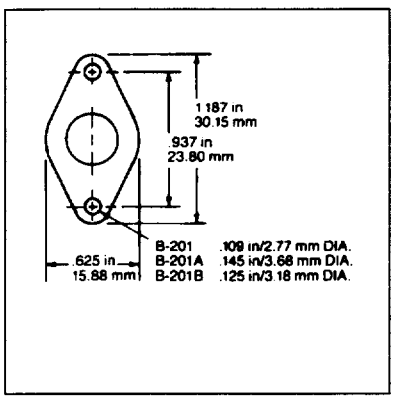




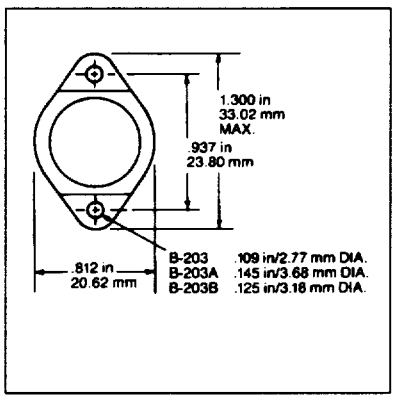
See Terminal or Bracket Guides for other options.

STANDARD MOUNTING BRACKET GUIDE*

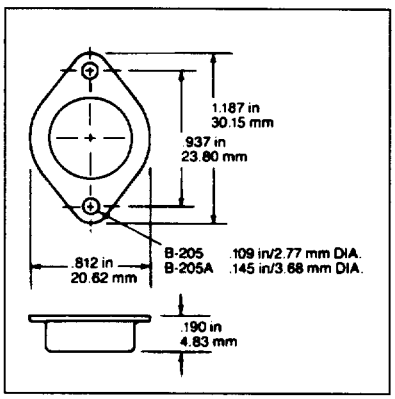
Stationary Surface Brackets
B-201/B-201A/B-201B



Moveable Surface Bracket
B-203/B-203A/B-203B

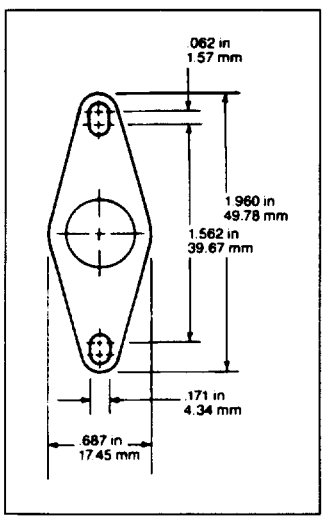


Air Stream Bracket
B-205/B-205A

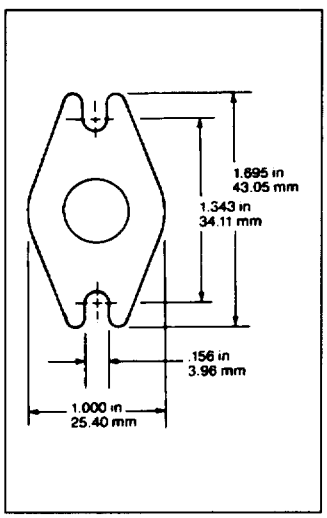


Special Mounting Brackets

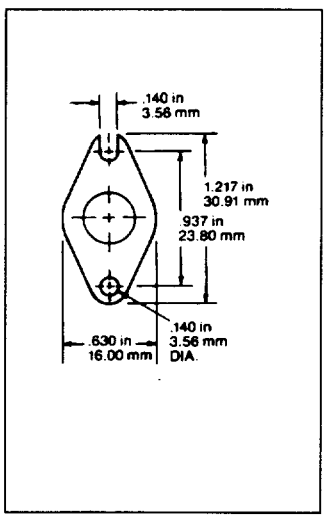
B-206



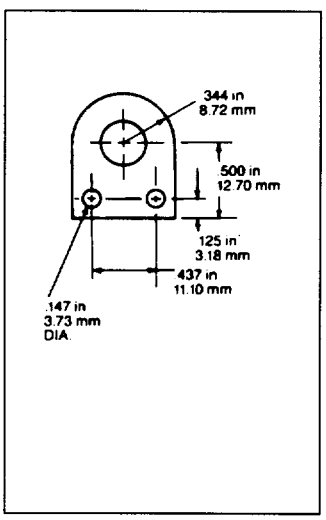
B-207



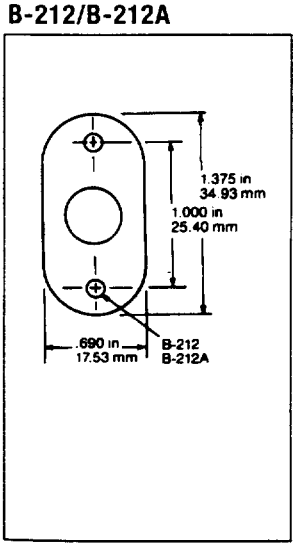
B-209



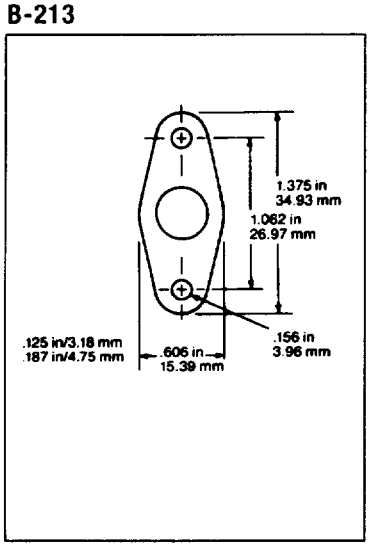
B-210



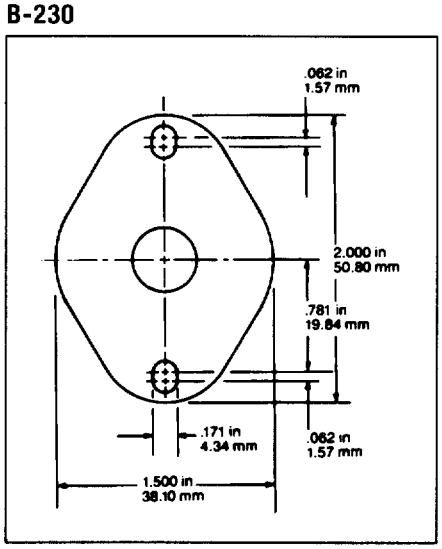
B-212/B-212A



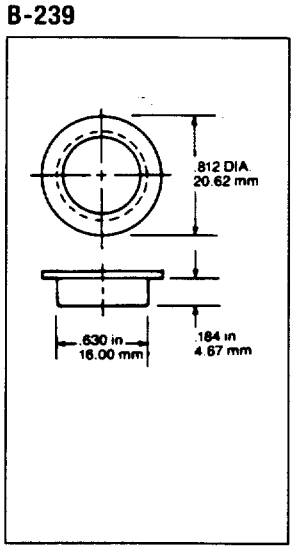
B-213



B-230

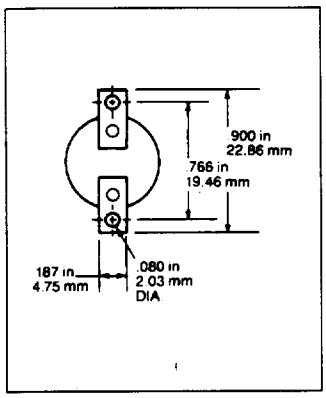


B-239

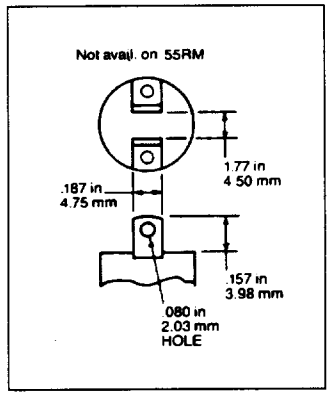


STANDARD TERMINAL GUIDE*

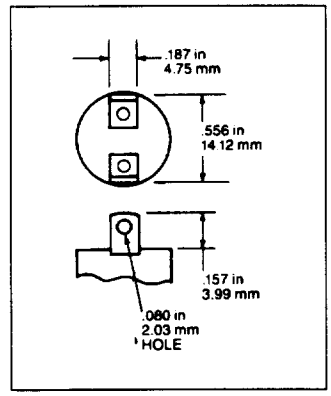
Horizontal Solder T-101



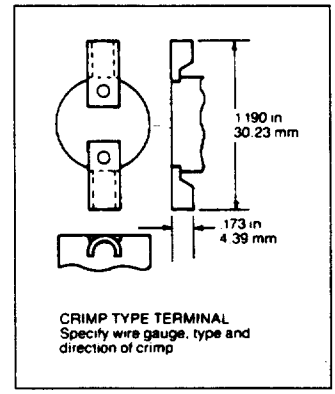
Vertical Solder Inside T-106



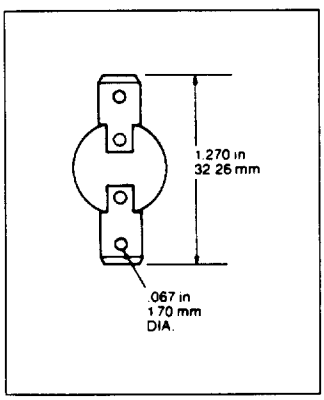
Vertical Solder Outside T-107



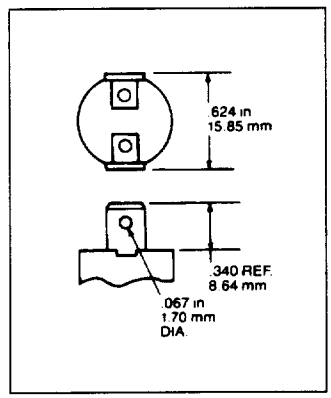
T-140



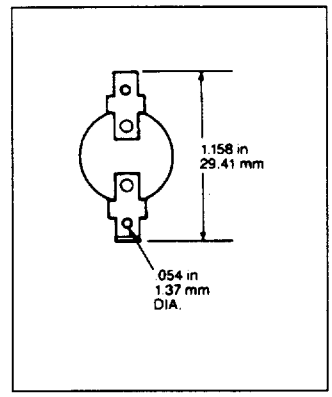
1/4" Quick Connect, Horizontal T-146



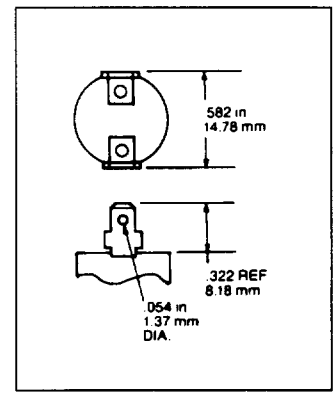
1/4" Quick Connect Vertical T-147



3/16" Quick Connect Flat T-149

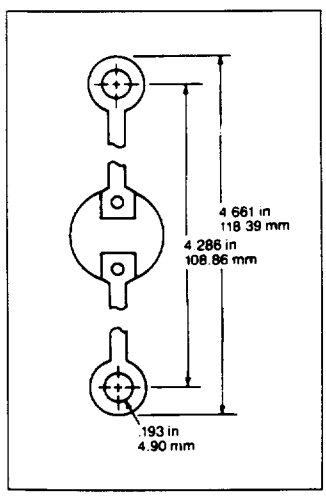


3/16" Quick Connect Vertical T-150

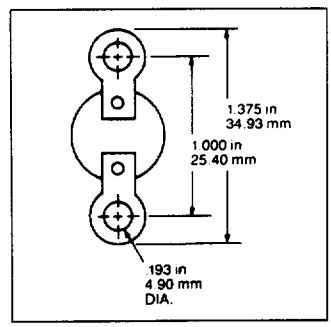


Special Terminals

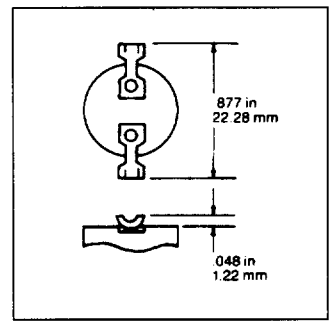
T-102



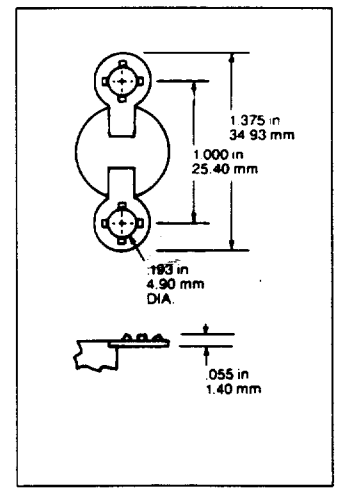
T-103



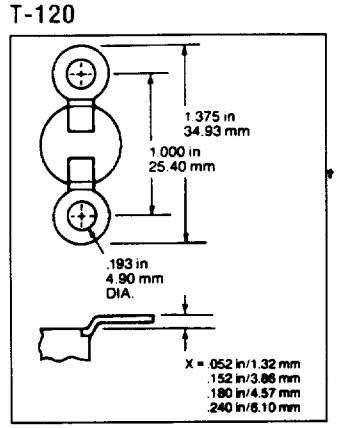
T-105 Specify Crimp Direction Up or Down



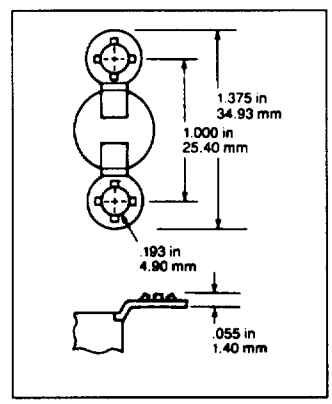
T-115



T-120



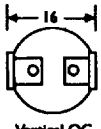
T-121



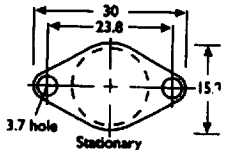
*For 1/2", One Shot, and Heat Detection Thermostats only.

Open C	Open Tol	Close C	Close Tol	Bracket	Body	Contact	RS Stk No
25	+/- 3	15	+/- 4	B201A	Phenolic	Silver	228-2563
20	+/- 3	10	+/- 4	B201A	Phenolic	Silver	228-2664
15	+/- 3	5	+/- 4	B201A	Phenolic	Silver	228-2658
50	+/- 3	35	+/- 5	B201A	Phenolic	Silver	228-2636
110	+/- 4	95	+/- 5	B201A	Phenolic	Silver	228-2620
35	+/- 3	50	+/- 5	B201A	Phenolic	Silver	228-2557
200	+/- 11	160	+/- 11	B201A	Ceramic	Silver	228-2541
220	+/- 11	180	+/- 11	B201A	Ceramic	Silver	228-2535
250	+/- 11	210	+/- 11	B201A	Ceramic	Silver	228-2529
70	+/- 4	N/A	N/A	B201A	Phenolic	Silver	228-2513
90	+/- 4	N/A	N/A	B201A	Phenolic	Silver	228-2579
100	+/- 5	N/A	N/A	B201A	Phenolic	Silver	228-2608
120	+/- 5	N/A	N/A	B201A	Phenolic	Silver	228-2591
150	+/- 5	N/A	N/A	B201A	Phenolic	Silver	228-2614

Terminal configuration for all items is T147



Vertical QC
6.35 x 0.8
T147



Stationary
Surface Bracket
B201 2.8 hole
B201A 3.7 hole