



CONDENSED CATALOG



THERMOSTATS



● If your product requires precise, sensitive control of temperature . . . if it is scheduled for volume production—chances are *there's a production line Stemco thermostat to satisfy all your requirements exactly.*

For Stevens produces the widest range of bimetal thermostats in the industry. Nineteen basic models are illustrated. Most types are available with various terminal arrangements, temperature ranges and calibration, mounting provisions, enclosures, etc. This eliminates needless expense in design, development and production tooling . . . *gives you a better, proven thermostat at lower cost.*

So whether you produce appliances, electronic devices, apparatus, instruments or electrical equipment—look to Stemco *first* to complete your product picture for performance . . . size . . . cost . . . delivery.

thermostatic controls and devices

STEVENS

manufacturing company, inc.

Mansfield, Ohio Cable "STEMCO" Mansfield, Ohio

In Canada: Stevens Controls Limited, Renfrew, Ontario

Look to



Thermostats First



for precise, sensitive, temperature control

1, 2, TYPE C† semi-enclosed (1), hermetically sealed (2). Small positive acting with electrically independent bimetal strip for operation from -10° to 300°F. Rated at approximately 3 amps, depending on application. Can be shipped unsealed for field adjustment by customer to 10°F higher or lower than factory setting. Various terminals and mountings. Bulletin 5000.

3, TYPE MX† hermetically sealed (3), or semi-enclosed. Snap acting miniature unit to close on temperature fall for missiles, avionic, electronic or similar uses. Temperature 10° to 260°F, 2-6°F differential, or 1-4°F differential. Also available on special request a total maximum spread of 6°F including tolerance and differential. Depending on duty cycle, rated: 1 to 3 amps, 115 VAC and 28 VAC/DC. Available with both terminals insulated or one terminal grounded. Various mounting brackets. Bulletin 6100.

4, TYPE AX† hermetically sealed. Heliarc welded, available only with isolated terminals. Closes on temperature rise to a tolerance of ±3°F, with a differential of 2-6°F. Rated: 1 to 3 amps, 115 VAC and 28 VAC/DC. Bulletin 3200.

5, TYPE A hermetically sealed. Heliarc welded, available to either open or close on temperature rise. Insulated, electrically independent bimetal disc gives fast response and quick, snap action control for electronic applications from -65° to 350°F. Depending on duty, rated: 4 to 13.3 amps, 125 VAC and 28 VAC/DC. Various terminals and mounting brackets available. Bulletin 3000-1.

6, TYPE 170*†. Inexpensive snap action disc type for hair dryer overheat protection, small air heaters, general applications permitting relatively wide limits and differentials. U.L. listed. Rated: 5 amps 120 VAC 6000 operations. 300°F maximum temperature. Open or close on rise. Bulletin 170,000.

7, TYPE A* or TYPE 110* semi-enclosed. Insulated, electrically independent bimetal disc gives fast response and quick, snap action control for appliances and electronic applications from -50° to 350°F. Depending on duty, rated: 4 to 16.6 amps, 115 VAC and 28 VAC/DC. Various terminals and mounting brackets available. Bulletins 3000 or 110,000.

8, TYPE GY*. Automatic, non-adjustable. Insulated, electrically independent bimetal disc gives fast response and quick, snap action control for refrigerators, clothes dryers, furnaces, other surface and warm air applications. Rated: 15 to 25 amps, 240 VAC, to temperatures of 350°F with either exposed or enclosed bimetal sensing disc. Available with either screw or quick connect terminals. Bulletin 3550.

9, TYPE GM*. Manual reset, trip free unit, rated for 25 amps, 240 VAC for temperatures up to 350°F. Snap acting bimetal disc for use on coffee machines, clothes dryers, furnaces, as a safety thermostat. Available with either quick connect terminals or screw terminals, in a variety of mounting brackets. Also, available with either exposed or enclosed bimetal disc retainer or cover. Bulletin 3550.

10, TYPE 200*†. Skeleton type with 3/8" snap acting disc. Features low cost and low silhouette. Available as SPST or SPDT construction, with either integral anticipator heater or as a plain thermostat. Available with quick connect terminals only for a rating of 25 amps, 240 VAC up to 350°F. Bulletin 200,000.

11, 12 TYPE 5*† adjustable (11), or non-adjustable (12). Positive acting with single stud or nozzle mounting. Operation to 600°F. Rated up to 16.6 amps at 120 VAC, 8.3 amps at 240 VAC. Spade, screw or formed terminals, various adjusting stems, etc. 2 KW, 240 VAC rating on special order. Bulletin 1000.

13, TYPE 210*† adjustable (13), or non-adjustable. Designed for dry and steam irons and other applications requiring minimum overshoot and small differential. Short bimetal and patented steel-aluminum mounting base gives faster heat pickup. U.L. rating 12 amps at 120 VAC for 100,000 cycles for temperatures to 550°F. Bulletin 210,000.

14, TYPE SA*† adjustable (14), or non-adjustable. Snap acting with electrically independent bimetal. Also single-pole, double throw. Single stud or nozzle mounting. Rated at 25 amps at 120/240 VAC. Spade or screw terminals. Bulletin 2000.

15, TYPE 5M† manual reset. Electrically same as Type SA except for manual reset feature. Bulletin 2000.

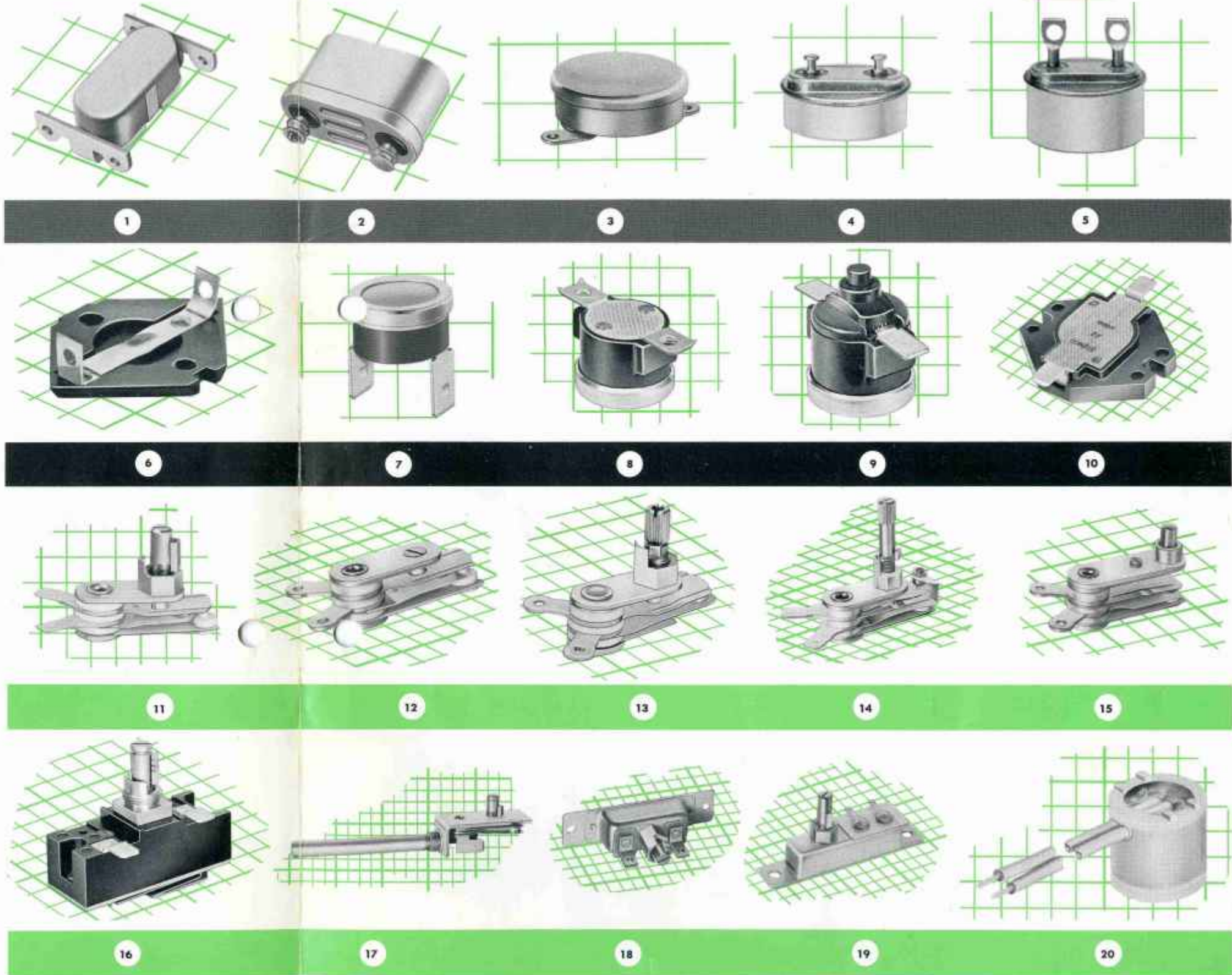
16, TYPE 220† adjustable snap acting type. Used on baseboard, bathroom and portable heaters, air conditioners, etc. Exposed bimetal gives rapid response. Available in close on rise, open on rise, SPST or SPDT. Depending on application, rating to 6000W, 240 VAC, differential approximately 2-6°F. U.L. and C.S.A. approval pending. Nozzle mountings, brackets, etc. Bulletin 220,000.

17, TYPE H† adjustable. Positive acting for fry pans, skillets, sauce pans, etc. Fail-safe, open in low to 500°F in high. Rated at 1650 watts at 115 VAC. Bulletin 10,000.

18, TYPE R*† sealed adjustable (18), sealed non-adjustable. Positive acting for operation to 600°F. Rated at 12.5 amps at 240 VAC. Screw terminals. Bulletin 7000.

19, TYPE W*† adjustable (19), or non-adjustable. Snap action bimetal strip type for operation to 300°F. Depending on duty, rated: 5 to 10 amps, 115 or 230 VAC. Screw or nozzle mountings; spade or screw terminals. Bulletin 4000.

20, POTTED TYPES AP*, GP*, NP*. Available in either an SPST or SPDT construction with current carrying ability up to 15 amps, 120 VAC for the SPST model, and 10 amps, 240 VAC for the primary side on the SPDT, and 5 amps, 240 VAC on the secondary side for the SPDT unit. Available with a variety of mounting brackets and various type of lead wires. Epoxy sealed constructed unit, and features a snap-action bimetal disc. Bulletins 3160, 3560, 3660 respectively.



*Refer to Guide 400 EO for UL or CSA approved ratings.
†These thermostats covered by patents issued or applied for.

Square grids give approximate size comparisons; each square represents approximately 1/4 inch.



How to use this Temperature Conversion Chart

GREEN NUMBERS refer to temperature, either in degrees Centigrade or Fahrenheit, which it is desired to convert into the other scale. When converting from Fahrenheit to Centigrade, read equivalent temperature in left column; when converting from Centigrade to Fahrenheit, find equivalent temperature in right column. These data were compiled by Dr. Albert Sauver and are reprinted by permission. Temperatures not listed may be determined by the formulae:

Degrees Centigrade = degrees Fahrenheit minus 32, times 5/9
 Degrees Fahrenheit = degrees Centigrade times 9/5, plus 32.

C.	F.	C.	F.	C.	F.			
-57.0	-70	-94.0	- 1.1	30	86.0	46.1	115	239.0
-51.0	-60	-76.0	- 0.6	31	87.8	48.9	120	248.0
-46.0	-50	-58.0	0.0	32	89.6	51.7	125	257.0
-40.0	-40	-40.0	0.6	33	91.4	54.4	130	266.0
-39.4	-39	-38.2	1.1	34	93.2	57.2	135	275.0
-38.9	-38	-36.4	1.7	35	95.0	60.0	140	284.0
-38.3	-27	-34.6	2.2	36	96.8	62.8	145	293.0
-37.8	-36	-32.8	2.8	37	98.6	65.6	150	302.0
-37.2	-35	-31.0	3.3	38	100.4	68.3	155	311.0
-36.7	-34	-29.2	3.9	39	102.2	71.1	160	320.0
-36.1	-33	-27.4	4.4	40	104.0	73.9	165	329.0
-35.6	-32	-25.6	5.0	41	105.8	76.7	170	338.0
-35.0	-31	-23.8	5.6	42	107.6	79.4	175	347.0
-34.4	-30	-22.0	6.1	43	109.4	82.2	180	356.0
-33.8	-29	-20.2	6.7	44	111.2	85.0	185	365.0
-33.3	-28	-18.4	7.2	45	113.0	87.8	190	374.0
-32.8	-27	-16.6	7.8	46	114.8	90.6	195	383.0
-32.2	-26	-14.8	8.3	47	116.6	93.3	200	392.0
-31.7	-25	-13.0	8.9	48	118.4	96.1	205	401.0
-31.1	-24	-11.2	9.4	49	120.2	98.9	210	410.0
-30.6	-23	- 9.4	10.0	50	122.0	101.7	215	419.0
-30.0	-22	- 7.6	10.6	51	123.8	104.4	220	428.0
-29.4	-21	- 5.8	11.1	52	125.6	107.2	225	437.0
-28.9	-20	- 4.0	11.7	53	127.4	110.0	230	446.0
-28.3	-19	- 2.2	12.2	54	129.2	112.8	235	455.0
-27.8	-18	- 0.4	12.8	55	131.0	115.6	240	464.0
-27.2	-17	+ 1.4	13.3	56	132.8	118.3	245	473.0
-26.7	-16	3.2	13.9	57	134.6	121.1	250	482.0
-26.1	-15	5.0	14.4	58	136.4	123.9	255	491.0
-25.6	-14	6.8	15.0	59	138.2	126.7	260	500.0
-25.0	-13	8.6	15.6	60	140.0	129.4	265	509.0
-24.4	-12	10.4	16.1	61	141.8	132.2	270	518.0
-23.9	-11	12.2	16.7	62	143.6	135.0	275	527.0
-23.3	-10	14.0	17.2	63	145.4	137.8	280	536.0
-22.8	- 9	15.8	17.8	64	147.2	140.6	285	545.0
-22.2	- 8	17.6	18.3	65	149.0	143.3	290	554.0
-21.7	- 7	19.4	18.9	66	150.8	146.1	295	563.0
-21.1	- 6	21.2	19.4	67	152.6	148.9	300	572.0
-20.6	- 5	23.0	20.0	68	154.4	151.7	305	581.0
-20.0	- 4	24.8	20.6	69	156.2	154.4	310	590.0
-19.4	- 3	26.6	21.1	70	158.0	157.2	315	599.0
-18.9	- 2	28.4	21.7	71	159.8	160.0	320	608.0
-18.3	- 1	30.2	22.2	72	161.6	162.8	325	617.0
-17.8	0	32.0	22.8	73	163.4	165.6	330	626.0
-17.2	1	33.8	23.3	74	165.2	168.4	335	635.0
-16.7	2	35.6	23.9	75	167.0	171.2	340	644.0
-16.1	3	37.4	24.4	76	168.8	174.0	345	653.0
-15.6	4	39.2	25.0	77	170.6	176.8	350	662.0
-15.0	5	41.0	25.6	78	172.4	179.6	355	671.0
-14.4	6	42.8	26.1	79	174.2	182.4	360	680.0
-13.9	7	44.6	26.7	80	176.0	185.2	365	689.0
-13.3	8	46.4	27.2	81	177.8	188.0	370	698.0
-12.8	9	48.2	27.8	82	179.6	190.8	375	707.0
-12.2	10	50.0	28.3	83	181.4	193.6	380	716.0
-11.7	11	51.8	28.9	84	183.2	196.4	385	725.0
-11.1	12	53.6	29.4	85	185.0	199.2	390	734.0
-10.6	13	55.4	30.0	86	186.8	202.0	395	743.0
-10.0	14	57.2	30.6	87	188.6	204.8	400	752.0
- 9.4	15	59.0	31.1	88	190.4	207.6	405	761.0
- 8.9	16	60.8	31.7	89	192.2	210.4	410	770.0
- 8.3	17	62.6	32.2	90	194.0	213.2	415	779.0
- 7.8	18	64.4	32.8	91	195.8	216.0	420	788.0
- 7.2	19	66.2	33.3	92	197.6	218.8	425	797.0
- 6.7	20	68.0	33.9	93	199.4	221.6	430	806.0
- 6.1	21	69.8	34.4	94	201.2	224.4	435	815.0
- 5.6	22	71.6	35.0	95	203.0	227.2	440	824.0
- 5.0	23	73.4	35.6	96	204.8	230.0	445	833.0
- 4.4	24	75.2	36.1	97	206.6	232.8	450	842.0
- 3.9	25	77.0	36.7	98	208.4	235.6	455	851.0
- 3.3	26	78.8	37.2	99	210.2	238.4	460	860.0
- 2.8	27	80.6	37.8	100	212.0	241.2	465	869.0
- 2.2	28	82.4	40.6	105	221.0	254.0	490	914.0
- 1.7	29	84.2	43.3	110	230.0	266.8	515	959.0



THERMOSTATS

Designed, developed and manufactured by

STEVENS MANUFACTURING COMPANY, INC.
 Mansfield, Ohio

In Canada: Stevens Controls Limited, Renfrew, Ontario