



KLIXON® | 4344 Series

1/2" Disc Hermetic Thermostats

-54°C to 288°C, SPST

FEATURES

- Single Pole / Single Throw (SPST)
- Preset temperature set points, non-adjustable calibration
- High resistance to shock and vibration
- Max resistive load: 7 amps
- Hermetically sealed, welded steel construction
- Various mounting configurations available, including probe, strap-mount or immersion thermostat
- Canadian-UL (UL File #34618), CSA (File #LR24458)

INTRODUCTION

The Klixon® 4344 series of thermostats are engineered with a snap-acting bimetal disc, producing a crisp, positive switching action. The standard 4344 comes copper-nickel plated with silver contacts. Other plating finishes are available upon request.

SPECIFICATIONS				
Contact Ratings (Resistive)	<i>Cycles</i>	<i>30VDC / 30VAC</i>	<i>125VAC</i>	<i>250VAC</i>
	100,000	5.0 amps	2.5 amps	1.0 amps
	50,000	5.5 amps	3.0 amps	1.5 amps
	25,000	6.0 amps	4.0 amps	2.0 amps
	10,000	6.5 amps	5.0 amps	2.5 amps
	5,000	7.0 amps	6.0 amps	3.0 amps
Gold Contact Ratings (Resistive)	<i>30VDC / 30VAC</i>	<i>115VAC</i>	<i>220VAC</i>	
	500 mA and below	200 mA and below	100 mA and below	
Operating Temperature	-54°C to 288°C (-65°F to 550°F)			
Dielectric Strength	1250 VAC, rms, 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301			
Contact Resistance	0.050 ohms maximum per MIL-STD-202, Method 307			
Vibration	5-2000 Hz, 20G, per MIL-STD-202, Method 204, Condition D (unmonitored)			
Shock	100G, 6 milliseconds, per MIL-STD-202, Method 213			
Hermeticity	1 x 10 ⁻⁵ atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C			
Salt Spray	Per MIL-STD-202, Method 101, Condition B, 5% solution			
Average Weight	4.8 grams (without bracket) to 5.9 grams (with bracket)			
Ambient Temperature Range	-62°C to 288°C (-80°F to +550°F)			
	<i>Maximum ambient exposure while in the closed position is 93°C above contact closing temperature.</i>			
Electrical Ratings	720 VA, 110-600 VAC, break but not make, ungrounded cup*			
	360 VA, 600 VAC, make and break, ungrounded cup			
	125 VA Pilot Duty, 24 to 240 VAC, make and break, grounded or ungrounded cup			
	<i>*At this rating, suitable as a control circuit, temperature limiting device for hazardous location motors and generators.</i>			

STANDARD TEMPERATURE SETTINGS					
OPERATING TEMPERATURE		DIFFERENTIAL		TOLERANCE	
°C	°F	°C	°F	± °C	± °F
-54	-65	17	30	6	10
-40	-40	17	30	6	10
-26	-15	17	30	6	10
-18	0	11	20	3	5
-12	10	11	20	3	5
-7	20	11	20	3	5
-1	30	11	20	3	5
4.4	40	11	20	3	5
10	50	11	20	3	5
16	60	11	20	3	5
21	70	11	20	3	5
27	80	11	20	3	5
32	90	11	20	3	5
38	100	11	20	3	5
43	110	11	20	3	5
49	120	11	20	3	5
54	130	11	20	3	5
60	140	11	20	3	5
66	150	11	20	3	5
71	160	11	20	3	5
77	170	11	20	3	5
82	180	11	20	3	5
88	190	11	20	3	5
93	200	11	20	3	5

STANDARD TEMPERATURE SETTINGS					
OPERATING TEMPERATURE		DIFFERENTIAL		TOLERANCE	
°C	°F	°C	°F	± °C	± °F
99	210	17	30	4.4	8
104	220	17	30	4.4	8
110	230	17	30	4.4	8
116	240	17	30	4.4	8
121	250	17	30	4.4	8
127	260	17	30	4.4	8
132	270	17	30	4.4	8
138	280	17	30	4.4	8
143	290	17	30	4.4	8
149	300	17	30	4.4	8
154	310	22	40	7	12
160	320	22	40	7	12
166	330	22	40	7	12
171	340	22	40	7	12
177	350	22	40	7	12
191	375	22	40	7	12
204	400	22	40	7	12
218	425	22	40	7	12
232	450	22	40	7	12
246	475	39	70	14	25
260	500	39	70	14	25
274	525	39	70	14	25
288	550	39	70	14	25
<i>Consult factory for additional temperatures</i>					