



# KLIXON® | 4344 Series

## 1/2" Disc Hermetic Thermostats

### -65°F to 550°F, 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

<b>Contact Ratings (Resistive)</b>	<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
<b>Gold Contact Ratings (Resistive)</b>	<i>30VDC / 30VAC</i>	<i>115VAC</i>	<i>220VAC</i>	
	500 mA and below	200 mA and below	100 mA and below	
<b>Operating Temperature</b>	-65°F to 550°F (-53.9°C to 287.8°C)			
<b>Dielectric Strength</b>	1250 VAC, rms, 60 cycles for 1 minute, terminal to case per MIL-STD-202, Method 301			
<b>Contact Resistance</b>	0.050 ohms maximum per MIL-STD-202, Method 307			
<b>Vibration</b>	5-2000 Hz, 20G, per MIL-STD-202, Method 204, Condition D (unmonitored)			
<b>Shock</b>	100G, 6 milliseconds, per MIL-STD-202, Method 213			
<b>Hermeticity</b>	1 x 10 <sup>-5</sup> atm cc/sec. maximum, per MIL-STD-202, Method 112, Condition C			
<b>Salt Spray</b>	Per MIL-STD-202, Method 101, Condition B, 5% solution			
<b>Average Weight</b>	4.8 grams (without bracket) to 5.9 grams (with bracket)			
<b>Ambient Temperature Range</b>	-80°F to +550°F (-62.2°C to 287.8°C) <i>Maximum ambient exposure while in the closed position is 200°F above contact closing temperature.</i>			
<b>Electrical Ratings</b>	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	
°F	°C	°F	°C	± °F	± °C
- 65	- 53.9	30	16.7	10	5.6
- 40	- 40	30	16.7	10	5.6
- 15	-26.1	30	16.7	10	5.6
0	- 17.8	20	11.1	5	2.8
10	- 12.2	20	11.1	5	2.8
20	- 6.7	20	11.1	5	2.8
30	- 1.1	20	11.1	5	2.8
40	4.4	20	11.1	5	2.8
50	10.0	20	11.1	5	2.8
60	15.6	20	11.1	5	2.8
70	21.1	20	11.1	5	2.8
80	26.7	20	11.1	5	2.8
90	32.2	20	11.1	5	2.8
100	37.8	20	11.1	5	2.8
110	43.3	20	11.1	5	2.8
120	48.9	20	11.1	5	2.8
130	54.4	20	11.1	5	2.8
140	60.0	20	11.1	5	2.8
150	65.6	20	11.1	5	2.8
160	71.1	20	11.1	5	2.8
170	76.7	20	11.1	5	2.8
180	82.2	20	11.1	5	2.8
190	87.8	20	11.1	5	2.8
200	93.3	20	11.1	5	2.8

OPERATING TEMPERATURE		DIFFERENTIAL		TOLERANCE	
°F	°C	°F	°C	± °F	± °C
210	98.9	30	16.7	8	4.4
220	104.4	30	16.7	8	4.4
230	110.0	30	16.7	8	4.4
240	115.6	30	16.7	8	4.4
250	121.1	30	16.7	8	4.4
260	126.7	30	16.7	8	4.4
270	132.2	30	16.7	8	4.4
280	137.8	30	16.7	8	4.4
290	143.3	30	16.7	8	4.4
300	148.9	30	16.7	8	4.4
310	154.4	40	22.2	12	6.7
320	160.0	40	22.2	12	6.7
330	165.6	40	22.2	12	6.7
340	171.1	40	22.2	12	6.7
350	176.7	40	22.2	12	6.7
375	190.6	40	22.2	12	6.7
400	204.4	40	22.2	12	6.7
425	218.3	40	22.2	12	6.7
450	232.2	40	22.2	12	6.7
475	246.1	70	38.9	25	13.9
500	260	70	38.9	25	13.9
525	273.9	70	38.9	25	13.9
550	287.8	70	38.9	25	13.9
<i>Consult factory for additional temperatures</i>					