TMCHallcrest

Surface Temperature Monitoring System



Irreversible Temperature Sensitive Products



IRREVERSIBLE LABELS

A fast, simple temperature monitoring system based on Proprietary colour change technology

- Inexpensive and Easy to Use
- Immediate Response
- Permanent Record of **Highest Temperature**
- Oil, Water and Steam Resistant
- Accuracy Tolerances 29°C to 99°C is +/-1°C 100 to 154°C is +/-1.5°C 160°C to 280°C +/- (1%+1°C)
- Temperature range 29-290°C
- Labels or Strips
- Silver to Black Colour Change
- Last Black Event is the highest temperature achieved

THERMAX 10 LEVEL STRIPS

Α	°C	*37	*40	44	46	49	54	60	62	65	71	°C	L
~	°F	99	104	111	115	120	129	140	144	149	160	74	
В	°C	77	82	88	93	99	104	110	116	121	127		
P	°F	171	180	190	199	210	219	230	241	250	261	65	
С	°C	132	138	143	149	154	160	166	171	177	182	62	
	°F	270	280	289	300	309	320	331	340	351	360	60	Γ
D	°C	188	193	199	204	210	216	224	232	241	249	54	
שן	°F	370	379	390	399	410	421	435	450	466	480	49	H
-												431	4

Specifications:

51 x 18mm (2.00" x 0.7") Size: Vertical, Self adhesive. Type:

THERMAX 8 LEVEL STRIPS 37

160

116

241

160

320

204

399

°C and °F

Range: (Sold in units of 10)

40

104

77

171

121

250

166

331

210

410

51 x 18mm (2.00" x 0.7")

THERMAX 6 LEVEL MINI STRIPS

Vertical, Self adhesive.

43

109

82

180

127

261

171

340

216

421

°C and °F Scale:

Range: (Sold in units of 10)

°C Α °F 99

> °C 71

°C

°C

°F

°C

°F

Specifications:

В °F

С °F

D

Е

Size:

Type:

Scale:

(*Please note that the lowest 2 temps on the 10A may be subject to change due to ongoing development)

46

115

88

190

132

270

177

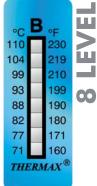
351

224

435



49 54 60 65 129 149 120 140 93 99 104 110 °C 210 110 199 219 230 138 143 149 154 104 280 289 300 309 99 199 182 188 193 93 379 390 360 370 88 249 254 232 241 260 82 450 466 480 489 500 77



°C	29	33	34	37	40	42				
°F	84	91	93	99	104	108				
°C	44	46	49	54	60	62				
°F	111	115	120	129	140	144				
°C	65	71	77	82	88	93				
°F	149	160	171	180	190	199				
°C	99	104	110	116	121	127				
°F	210	219	230	241	250	261				
°C	132	138	143	149	154	160				
°F	270	280	289	300	309	320				
°C	166	171	177	182	188	193				
°F	331	340	351	360	370	379				
°C	199	204	210	216	224	232				
°F	390	399	410	421	435	450				
°C	241	249	254	260	280	290				
°F	466	480	489	500	536	554				
Specifications: Size: 12 x 32mm (0.47" x 1.26") Type: Horizontal, Self adhesive. Scale: °C and °F Range: (Sold in units of 10) 99 104 110 116 121 127 °C 99 104 110 116 121 127 °C 91 104 104 104 104 104 104 91 104 104 104 104 104 104 104 104 104 104 104 104 104										
L	EV	ΈL	I							
	°F °C °F °C	°F 84 °C 44 °F 111 °C 65 °F 149 °C 99 °F 210 °C 132 °F 270 °C 166 °F 331 °C 199 °F 390 °C 241 °F 466 ecifications: 12 x 32mic e: Horizontal e: °C and °F ge: (Sold in ui) 99 104 110 11 11 12 230	°F 84 91 °C 44 46 °F 111 115 °C 65 71 °F 149 160 °C 99 104 °F 210 219 °C 132 138 °F 270 280 °C 166 171 °F 331 340 °C 199 204 °F 390 399 °C 241 249 °F 466 480 ectifications: : 12 x 32mm (0.47* :: 12 x 32mm (0.47* : :: 12 x 32mm (0.47* : :: 012 x 30 : 10 :: 104 110 116 121 :: 02 and °F : : : :: 02 and °F : : : :: 04 10	°F 84 91 93 °C 44 46 49 °F 111 115 120 °C 65 71 77 °F 149 160 171 °C 99 104 110 °F 210 219 230 °C 132 138 143 °F 270 280 289 °C 166 171 177 °F 331 340 351 °C 166 171 177 °F 370 399 410 °C 241 249 254 °F 466 480 489 ecifications: 12 × 32mm (0.47" x 1.26" 2 e: Horizontal, Self adhesive. 10 e: °C and °F 9 104 99 104 116 121 127 °C 99 104 116 121 127 °C 99 104 110 150 10	$^{\circ}$ C 29 33 34 37 $^{\circ}$ F 84 91 93 99 $^{\circ}$ C 44 46 49 54 $^{\circ}$ F 111 115 120 129 $^{\circ}$ C 65 71 77 82 $^{\circ}$ F 149 160 171 180 $^{\circ}$ C 99 104 110 116 $^{\circ}$ F 210 219 230 241 $^{\circ}$ C 132 138 143 149 $^{\circ}$ C 166 171 177 182 $^{\circ}$ F 313 340 351 360 $^{\circ}$ C 166 171 177 182 $^{\circ}$ F 331 340 351 360 $^{\circ}$ C 199 204 210 216 $^{\circ}$ F 390 399 410 421 $^{\circ}$ C 241 249 254 260 $^{\circ}$ F 466 480 489 500 eetifications:	°F 84 91 93 99 104 °C 44 46 49 54 60 °F 111 115 120 129 140 °C 65 71 77 82 88 °F 149 160 171 180 190 °C 99 104 110 116 121 °F 210 219 230 241 250 °C 132 138 143 149 154 °F 270 280 289 300 309 °C 166 171 177 182 188 °F 331 340 351 360 370 °C 199 204 210 216 224 °F 390 399 410 421 435 °C 241 249 254 260 280 °F 466 480 489 500 536 ectifications: : :2				

тн	ERM	AX 5 I	LEVEL	STRI	s	
Α	°C	37	40	*43	*46	*49
A	°F	99	104	109	115	120
В	°C	49	54	60	65	71
D	°F	120	129	140	149	160
С	°C	77	82	88	93	99
C	°F	171	180	190	199	210
D	°C	104	110	116	121	127
ν	°F	219	230	241	250	261
Ε	°C	132	138	143	149	154
	°F	270	280	289	300	309
F	°C	160	166	171	177	182
F	°F	320	331	340	351	360
G	°C	188	193	199	204	210
G	°F	370	379	390	399	410
н	°C	216	224	232	241	249
п	°F	421	435	450	466	480
	°C	249	254	260	280	290
I	°F	480	489	500	536	554
S	°C	29	33	34	37	40
3	°F	84	91	93	99	104
Sp Size	: 39 (1	x 18m .53" x 0 ertical, S	m .7")	ostvo	•c C) •F
Sca	le: °(C and °F			127	261

Range: (Sold in units of 10) (*Please note that the temps on the 5A may be subject to change due to ongoing development)



121

116

110 104

Thermax irreversible temperature strips and indicators provide a permanent record that an item has exceeded its rated temperature and can be used in most applications where temperature is a concern.

TMCHallcrest

Surface Temperature Monitoring System

THERMAX[®]

Strips and Indicators

APPLICATIONS

Pharmaceuticals and Food Stuffs

Prevention of heat-related deterioration

During Transportation and Distribution Prove that a thermal disinfection temperature has been reached

Manufacturing—

Electronics, Aerospace, Automotive

Monitoring temperature surface (curing-bonding)

Confirm that soldering temperatures have been achieved

Observing machinery overheating due to friction

Warranty abuse monitor engine component temperature

Confirm temperature integrity in machine maintenance

Insure that temperature sensitive products meet installation requirements

Warn users that environmental conditions exceed temperature limits

Complies with the essential requirements of the relevant European health, safety and environmental protection legislation Conforms to BS EN ISO 9001:2000

TMCHallcrest

Specifications:

Size: 12 x 13mm (0.47" x 0.51") Type: Single temperature indicator shows when maximum temperature has been achieved. Self adhesive. Scale: °C and °F Range: (Sold in units of 50)



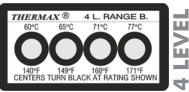
THERMAX ENCAPSULATED INDICATORS

	33	34	37	40	42	43	
44	46	49	54	60	62	65	
71	77	82	88	93	99	104	
110	116	121	127	132	138	143	
149	154	160	166	171	177	182	
188	193	199	204	210	216	224	
232	241	249	254	260	280	290	
84	91	93	99	104	108	109	
111	115	120	129	140	144	149	
160	171	180	190	199	210	219	
230	241	250	261	270	280	289	Ō
300	309	320	331	340	351	360	
370	379	390	399	410	421	435	\mathbf{Z}
450	466	480	489	500	536	554	
	71 110 149 188 232 84 111 160 230 300 370	71 77 110 116 149 154 188 193 232 241 84 91 111 115 160 171 230 241 300 309 370 379	71 77 82 110 116 121 149 154 160 188 193 199 232 241 249 84 91 93 111 115 120 160 171 180 230 241 250 300 309 320 370 379 390	71 77 82 88 110 116 121 127 149 154 160 166 188 193 199 204 232 241 249 254 84 91 93 99 111 115 120 129 160 171 180 190 230 241 250 261 300 309 320 331 370 379 390 399	71 77 82 88 93 110 116 121 127 132 149 154 160 166 171 188 193 199 204 210 232 241 249 254 260 84 91 93 99 104 111 115 120 129 140 160 171 180 190 199 230 241 250 261 270 300 309 320 331 340 370 379 390 399 410	71 77 82 88 93 99 110 116 121 127 132 138 149 154 160 166 171 177 188 193 199 204 210 216 232 241 249 254 260 280 84 91 93 99 104 108 111 115 120 129 140 144 160 171 180 190 199 210 230 241 250 261 270 280 300 309 320 331 340 351 370 379 390 399 410 421	71 77 82 88 93 99 104 110 116 121 127 132 138 143 149 154 160 166 171 177 182 188 193 199 204 210 216 224 232 241 249 254 260 280 290 84 91 93 99 104 108 109 111 115 120 129 140 144 149 160 171 180 190 199 210 219 230 241 250 261 270 280 289 300 309 320 331 340 351 360 370 379 390 399 410 421 435

THERMAX 4 LEVEL STRIPS

Α	°C	37	44	49	54	F	°C	149	154	160	166
-	°F	99	111	120	129		°F	300	309	320	331
В	°C	60	65	71	77	G	°C	171	177	182	188
P	°F	140	149	160	171	9	°F	340	351	360	370
С	°C	82	88	93	99	н	°C	193	199	204	210
	°F	180	190	199	210		°F	379	390	399	410
D	°C	104	110	116	121		°C	216	224	232	241
	°F	219	230	241	250		°F	421	435	450	466
Ε	°C	127	132	138	143		°C	249	260	280	290
	°F	261	270	280	289	.	°F	480	500	536	554
Sp	ecific	ation	s:								
01	~		10 01					0			_

Size: 23 x 45mm (0.91" x 1.77") Type: Horizontal, Self adhesive. Scale: °C and °F Range: (Sold in units of 10)



THERMAX 4 LEVEL MICRO LABELS

	EKIN	AA 4	LEVEL	MICK		DELO
1	°C	40	42	44	46	
	°F	104	108	111	115	93 99 104 110
2	°C	49	54	60	65	
_	°F	120	129	140	149	
3	°C	71	77	82	88	
J	°F	160	171	180	190	0
4	°C	93	99	104	110	
4	°F	199	210	219	230	
5	°C	116	121	127	132	U
))	°F	241	250	261	270	
6	°C	138	143	149	154	S
0	°F	280	289	300	309	
7	°C	160	166	171	177	
1	°F	320	331	340	351	
0	°C	182	188	193	199	
8	°F	360	370	379	390	
9	°C	204	210	215	224	
7	°F	399	410	421	435	4

Specifications:

Size: 4 x 11mm (0.15" x 0.43") Type: Horizontal, Self adhesive. Scale: °C Range: (Sold in units of 10)

THERMAX CLOCK INDICATORS

1	°C	40	43	46	49	54
	°F	104	109	115	120	129
2	õ	60	65	71	77	82
	°F	140	149	160	171	180
3	°C	88	93	99	104	110
J	°F	190	199	210	219	230
4	C	116	121	127	132	138
•••	°F	241	250	261	270	280
5	°C	143	149	154	160	166
J	°F	289	300	309	320	331
6	C	171	177	182	188	193
U	°F	340	351	360	370	379
	C	199	204	210	216	224
	°F	390	399	410	421	435
8	C	232	241	249	254	260
U	°F	450	466	480	489	500



Size: 15mm Diameter (0.59") Type: Circular, Self adhesive. Scale: °C and °F Range: (Sold in units of 10)