



# **Single Color Thermometers** & Temperature Indicators

Traditional Digitemp liquid crystal thermometers indicate temperature by running sequentially through the color spectrum to indicate current temperature.

Digitemp SC thermometers indicate the current temperature with one color. No Interpretation Necessary!! Same features and benefits of traditional liquid crystal thermometers in an easy to read format that offers limitless custom possibilities!

Single color change liquid crystal is digital in nature and works like an on off switch, allowing the technology to be applied to custom graphics. Symbols, numbers, letters, and images can be made to appear or disappear when an activation point is reached. Triggering points can be mixed to create indicators that monitor a temperature range, High, Low and OK can be combined in one indicator.

- Accurate to ± 1°C
- Easy to Read
- Continuous Temperature Display
- No Batteries
- Low Cost
- 0°C to 75°C Temperature Range
- Self Adhesive

# Mext Generation IN DIGITAL LIQUID CRYSTAL THERMOMETRY

**Digitemp<sup>®</sup>SC** 

## THERMOMETERS 2114 Room Thermometer 62 66 70 73 77 17 19 21 23 25 70 Specifications:

Size: 3.5" x 0.5" (89mm x 12.5mm) Type: Horizontal, self adhesive Scale: °F and °C

## 32 | 41 | 50 |

4557

59 68 °C 0 5 10 15 20 Specifications: Size: 0.5" x 1.77"

(12.5mm x 45mm) Type: Horizontal, self adhesive

Scale: °F and °C

## AEE0

455	0							60 00
°F	86	95	104	113	122	131	140	50 55
°C	30	35	40	45	50	55	60	10 45 140°F
	cificati		.77"		1	°C 30	35	104 113 122 131

(12.5mm x 45mm)

Type: Horizontal, self adhesive Scale: °F and °C

## **CUSTOM** Solutions

81

READ

73

## indicate COLD





indicate





















# In Addition

We can **CUSTOMIZE** YOUr product to work for specific: ideas

All shapes and sizes. No ideas off limits. Really.



## Digi – Temp® SC Reversible Thermochromic Single Color Liquid Crystal Thermometers

## **Reversible Temperature Indicators**

#### What They Are:

These self-adhesive labels consist of a series of temperature-sensitive elements containing microencapsulated **Thermochromic Liquid Crystal** TLC coated on a black backing. Each element changes color distinctly as its rated temperature is reached and maintained. The color changes are reversible meaning that the reflected color will turn black as the temperature is reversed. Thermochromic Single Color Change (SC) Labels can be ascending (SCA) or descending (SCB) that is change from black to a color as temperature increases or black to a color as the temperature decreases.

### How the Digi - Temp SC labels work:

The temperature-sensitive elements contain TLC molecules that are very sensitive to temperature and change their arrangement in response to changes in temperature. This change in molecular geometry affects the way in which the TLC interacts with light, resulting in a change in the color of each temperature event.

When the rated temperature of an indicator is reached, the TLC changes its form from reflecting (color) to non-reflecting (black) or vice versa. This causes the color-change at the temperature event to occur.

#### Label Construction:

Lubei Constructio	·n.		
Component: Polyester film  Graphic Print Liquid Crystal Ink Black Backing Adhesive & carrier	$\begin{array}{c} \underline{Thickness} \\ > 75,\ 125,\ 175\mu \\ \text{(Depending on label type)} \\ 10\text{-}20\mu \\ 10\text{-}50\mu \\ 10\text{-}20\mu \\ 150\text{-}180\mu \\ \end{array}$	Black Graphic — Print Black	
Release Liner	75μ	Adhesive — and Carrier White	hic
		Liqui Cryst Inks	tal
		Relea	

Above values are general guides using the standard products as a representative example.



Adhesive Tape	Double-coated Adhesive Tape
Covering Film	Polyester 5 mil stock
Color Change Material	Non-toxic mixture of liquid crystal esters
Accuracy	±1°C
Guarantee	12 months from invoice date when stored at room temperature (i.e. 21°C (70°F) & 50% relative humidity).

#### Reading Digi-Temp SC Labels:

The correct temperature is indicated by the event on the TLC thermometer that turns color.

...For SCAs the highest event that turns color indicates the correct temperature...For SCBs the lowest event that turns color indicates the correct temperature...

#### **Custom Products:**

In addition to the standard **Digi-Temp SC** labels, which cover the temperature range of 0 -75°C, a full custom manufacturing service is available and products can be manufactured to meet customers' precise requirements of, for example, size, shape, color, temperature range, number of temperature elements, and/or graphic printing (custom logos). Please ask for details.