

# thermosmart<sup>®</sup> FOR EDUCATION

## LIQUID LEVEL INDICATOR STRIP

This versatile strip utilises materials with thermochromic properties to determine the approximate difference in temperature between two areas. As such this can then be used to indicate the level of butane or propane in a gas canister, the levels of foam or water in fire extinguishers or anything where a temperature differential is created on the outside of a vessel containing a liquid. The strip has a self-adhesive backing and a polyester protective film. It measures 450 mm x 20 mm wide and can be cut to length to fit most sizes of canister. The label is reversible and therefore can be used numerous times providing it is not exposed to excessive temperatures. To determine a level simply place the strip vertically down the side of the canister, then apply heat to the strip using a heat gun or hair dryer until the strip has completely changed from black to a bright red (Very hot water can be used as an alternative under supervision). Once the heat source is removed a portion of the strip will change back to black faster. The line created by the difference in colour indicates where the approximate level is. The product here is demonstrating thermal conduction and the principle of a heat sink. Another experiment can be run by using a gas canister connected to an appliance. If the appliance is used to burn the gas for 5 minutes and the above technique followed once again, then a more accurate level may be determined for the gas as the liquid and the gas above it will no longer be in thermal equilibrium.



Part No.	Description	Size	Quantity
T01LCRVR04301PK	LIQUID LEVEL INDICATOR STRIP	450MM X 20MM	Pack of 10

## Special Requests

If you have an idea for use in education that involves colour change then please contact us by going to [www.lcrhallcrest.com/thermosmart](http://www.lcrhallcrest.com/thermosmart) and clicking on the Special Request area

**LCRHallcrest**

LCR Hallcrest Ltd.  
Riverside Buildings, Dock Rd, Connah's Quay, Flintshire, CH5 4DS  
Tel: +44 (0) 1244 817107 Fax: +44 (0) 1244 818502  
E: [sales@lcrhallcrest.com](mailto:sales@lcrhallcrest.com)  
W: [www.lcrhallcrest.com](http://www.lcrhallcrest.com)