

STATION 4

APPLICATIONS OF LIQUID CRYSTALS: THE WEATHER STATION USES LIQUID CRYSTALS.

Use the weather station to determine the current inside and outside temperatures, humidity and barometric pressure.

0~50°C Indoor Temp
-40~60°C Outdoor Temp



Barometer Pressure Display
5 Weather forecast display
Moon Phase
Alarm and Snooze
w/ LED backlight

3 sensors

Material:

Weather station, WS-001-3S Digital Weather Forecast Station Thermometer Barometer with 3 Sensors

Concepts - Weather forecasting.

From <http://easyscienceforkids.com/understanding-the-weather-forecast/>

A high pressure system occurs when dry, cool air spirals in a clockwise direction, bringing mild weather and sunny, blue skies.

A low pressure system is moist, warm air swirling in a counter-clockwise direction. Low pressure systems usually mean stormy, wet weather.

Relative humidity refers to how much moisture is in the air compared with how much moisture the air can hold. The more humid it is, the warmer you feel in hot weather and the colder you feel in winter weather.

A front is when two air masses of different temperatures meet. When cold and warm air masses meet, you can usually expect turbulent, stormy weather. A cold front happens when cold air and bad weather moves into an area. On a weather map, a blue line with teeth show which direction the cold front is moving. A warm front occurs when warm air moves into an area. A red line with half circles indicates a warm front.