

### 90 DAY WARRANTY

Sper Scientific warrants this product against defects in materials and workmanship for a period of 90 days from the date of purchase, and agrees to repair or replace any defective unit without charge. If your model has since been discontinued, an equivalent Sper Scientific product will be substituted if available. This warranty does not cover damage resulting from accident, misuse, or abuse of the product. In order to obtain warranty service, simply ship the unit postage prepaid to:

SPER SCIENTIFIC, LTD.  
7720 East Redfield, Suite 7  
Scottsdale, Arizona 85260  
(480) 948-4448

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### Weather Ball Barometer 739750

Torricelli (1608 – 1647) proved that air pressure was subject to variations and in 1643 he devised the first barometer. Goethe, the famous German playwright, who enjoyed scientific experiments, later developed his own simple, but effective barometer using the principles established by Torricelli.

This product is based on Goethe's design. The Weather Ball Barometer will indicate changes in air pressure quickly and accurately. The ball is filled with colored distilled water. Once filled the air trapped inside the ball is no longer subject to variations in atmospheric pressure. The liquid in the indicator tube, however, remains open to the atmosphere and is directly affected by atmospheric pressure. When atmospheric pressure rises the liquid in the indicator tube is pushed down and an improvement in the weather can be anticipated. When air pressure falls the greater pressure inside the ball causes the liquid in the indicator tube to rise indicating that a deterioration in weather can be expected.

**Dimensions:** Height: 7½", Ball Diameter: 4"

**Instructions:** Find 2 containers large enough to hold the Weather Ball. Fill the first container to a 6" depth with cold distilled water. Fill the second container to a 6" depth with warm distilled water. Holding the base of the Weather Ball, submerge the opening into the warm water and fill until the bubbles subside. Immediately, submerge the Weather Ball into the cold water and it will draw in the water. Repeat these steps until the Weather Ball is half full. Allow 2 hours for the water to reach room temperature. Turn the Weather Ball upside down, allowing half the liquid in the spout to pour out. Finally, color the water with your choice of liquid food coloring.