Aneroid barometer

An aneroid barometer is an [instrument](https://en.wikipedia.org/wiki/Measuring_instrument) used for measuring air pressure as a method that does not involve [liquid](https://en.wikipedia.org/wiki/Liquid). It was invented in 1844 by French scientist [Lucien Vidi](https://en.wikipedia.org/wiki/Lucien_Vidi).  It contains a small, flexible-walled evacuated capsule, which is made up of an alloy of [beryllium](https://en.wikipedia.org/wiki/Beryllium) and [copper](https://en.wikipedia.org/wiki/Copper). Whenever there is a change in the pressure, the thickness of this capsule changes. Similarly, whenever there is an increase in the [pressure](https://www.toppr.com/guides/physics/mechanical-properties-of-fluids/pressure-and-its-application/) of the atmosphere, the sides of the capsule become compressed. This capsule attaches to a lever which keeps moving the needle as and when the air pressure keeps squeezing the capsule. This results in registering a higher reading on the scale. These changes are thus magnified by levers and are causes the pointer to move on a dial which is behind the needle. They are much more safer and convenient than mercury barometers as they do not have mercury in it and much smaller and portable.

Uses –It pretty much has the same uses as mercury barometers. But because of it’s convenient and portable nature, it is commonly found being used for reading pressure in common households and recreational boats. There are many other uses as well -  
1. Used as a pressure instrument in [radiosondes](https://en.wikipedia.org/wiki/Radiosonde).  
2. Used in barographs in meteorology.  
3. It can store a week's worth of data.  
4. Used for weather forecasts.  
5. Used for the Earth's atmosphere.  
6. Used by the powertrain control module to regulate engine timing and fuel trim.  
7. Used for the pressure levels.  
8. Used for the sensor gauges pressure.  
9.Used for weather map symbols which provides a graphic representation of weather. 10. Used in altimeters in modern aircraft.