

Instructions for reading and setting your aneroid barometer

How to set your barometer.

This aneroid barometer is set to indicate true barometric pressure when read at sea level (0 altitude). As altitude increases atmospheric pressure decreases and the barometer has to be corrected to give the true sea level reading. This adjustment is made by using a screwdriver to turn the small screw seen through the back of the case, moving the black indicator hand, as calculated on the table.

1 millibar = 0.0295 inches

Above these altitudes add 0.05 inches or 2mb per 50 feet

The main divisions 28 to 31 represent inches and the smaller divisions represent one tenth inches. Your approximate altitude can be obtained from your local weather centre or town hall.

An alternative method of setting, where accurate altitude information is not available is to seek local barometric pressure from your nearest weather observatory or if near coastal waters, from the coastguard station.

How to "read" your barometer

The pointer should be turned so that it falls immediately above the black indicator hand. When a reading is taken, tap the glass, and the tendency of the barometer rising or falling will be apparent. It should be understood that the barometer does not indicate present weather conditions but forecasts probable conditions 12 to 14 hours later, taking into consideration any changes in the direction of the wind. A rise must be considered in relation to the former reading and the same principle applies to a fall.

Rising barometer

A gradual but steady rise indicates settled fair weather. A very slow rise from a low point usually means high winds and dry weather. A rapid rise indicates clear weather and very windy. A rise is the black indicator moving in a clockwise direction.

Falling barometer

A gradual but steady fall indicates unsettled or wet weather. A very slow fall from a high point usually means wet unpleasant weather without much wind. A sudden fall indicates sudden rain or snow or high winds or both. A fall is the black indicator moving in an anti-clockwise direction.

Forecasting chart – brief guide to future weather conditions. Probable weather if barometer reads within the following inches.

In Winter

Cold with frost and fog	31.0 to 30.5
Clear and cold	30.5 to 30.0
Changeable with rain or snow	30.0 to 29.5
Very unsettled, heavy rain	29.5 to 29.0

In summer

Very dry and settled
Fair, if falling. Rain probable.
Changeable. Close and showery.
Very unsettled, heavy rain.

Millibars

In Winter

Cold with frost and fog	1049 to 1033
Clear and cold	1033 to 1016
Changeable with rain or snow	1016 to 999
Very unsettled, heavy rain	999 to 982

In summer

Very dry and settled
Fair, if falling. Rain probable.
Changeable. Close and showery.
Very unsettled, heavy rain.

Hygrometer and thermometer

These have been tested and adjusted during production.