



Congratulations on your purchase of a ROYAL MARINER® Barometer



Mounting your Barometer

The location of your barometer is a matter of choice, but some places should be avoided.

- *Avoid doorways. A strong draught can cause the air pressure to be too variable*
- *Avoid placing near to or above heating or air conditioning outlets, heaters or cooking appliances*
- *Avoid placing in direct sunlight*
- *Avoid placing near windows, hatches, ports, under dorade vents etc to protect where possible from salt laden air*
- *This barometer is not waterproof*

Use and care of your Barometer

It is recommended to read the barometer at the same times each day, usually mid morning or afternoon.

Tap the glass face 2 or 3 times, and note the barometer pressure as indicated by the dark coloured barometer needle.

Turn the brass pointer needle to be over the top of the barometer needle.

At the time of your next reading again tap the glass and note the new position of the barometer needle.

Rapidly falling pressures can indicate the approach of a trough or a front.

High pressure, 1020hpa or higher, should bring fine days with light winds.

Small variations of about 3 hPa (diurnal) occur normally throughout the day, and do not indicate changing weather.

Wipe with a clean cloth frequently. Brass models benefit from an occasional polish with Brasso or similar.

Setting your Barometer for your location

In many cases the precise reading obtained from the barometer is not particularly important, as the amount and speed of change in the reading gives us much useful information, but to match the readings as closely as possible to daily published data for your location then some correction may be required.

This is largely because barometer readings drop by about 3hPa (3mB) for every 25 meters height above sea level.

Weather stations worldwide are obviously at widely different heights above sea level, so in order to standardise readings taken from them, they apply a correction to their barometer, which 'adjusts' the published figures to that of a reading taken at sea level. This is known as mean sea level pressure (MSLP).

So in order to compare your barometer readings directly with those published by a nearby official station you need to 'adjust' the actual reading obtained on your barometer to that of the corrected sea level reading.

First locate a source for the latest barometric pressure readings for your location. The internet is ideal.

In NZ, see here <http://www.metservice.com/national/home>. In Australia, see here <http://www.bom.gov.au/>

There are countless others, you may prefer a small local weather station that you can rely on.

Do the following adjustment when no weather fronts are approaching.

Mid morning or afternoon is recommended, as average pressure change is minimal then.

See image below of adjustment screw position. To locate, open the hinged front of the barometer and look on the rear.



IMPORTANT *The barometer must be in the vertical (upright) mounted position. Determine which way you need to adjust the barometer needle (not the pointer). Make a very small adjustment to the rear centre screw with a small screwdriver. Tap the glass firmly, and make another small adjustment. Keep repeating the above procedure until the barometer needle reading matches that obtained from your local source.*

Your guarantee of quality

In the event of malfunction Cruising Electronics will, at their discretion, repair or replace the unit, providing that:

Malfunction has occurred within 36 months from the date of purchase - proof of purchase is required

The unit has not been exposed to any fluid, corrosive or hazardous substance, or excessive airborne particles

The unit is returned freight paid to Cruising Electronics or their nominated agent

Please note that under no circumstances can Cruising Electronics be held responsible or accept liability for any consequential damages or loss, incurred as a result of installing or operating this barometer

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