

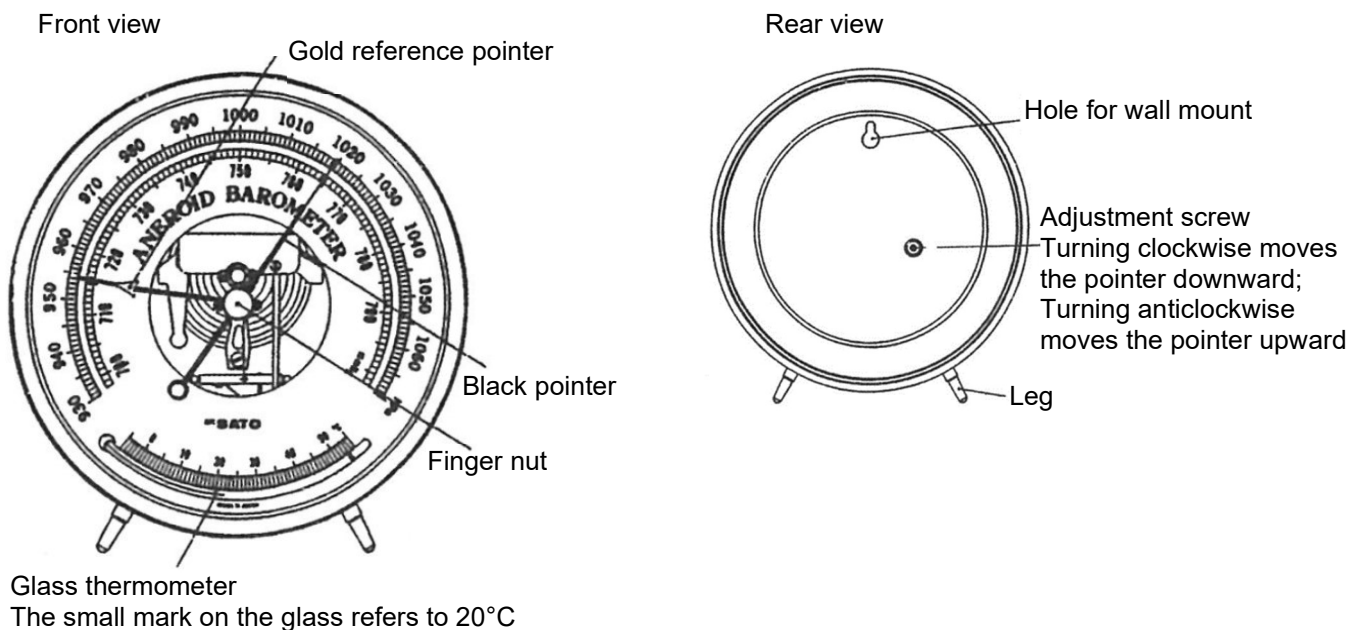
Instruction Manual

No. 7610-20 Aneroid Barometer with Glass Thermometer

This product is designed to measure indoor atmospheric pressure and temperature.
Read this manual thoroughly before use and keep it in a safe place for future reference.

1. How to Use

- (1) Mount the device on a wall using the hole on the back, or put it on a horizontal surface.
- (2) Turn the finger nut to overlap the gold reference pointer on the black pointer which indicates the current pressure.
- (3) After a certain period, check if the black pointer has moved compared with the gold pointer. In general, the weather gets worse when the black pointer moves anticlockwise, and it gets better when the pointer moves clockwise. The former means that a low-pressure area comes close while the latter indicates the low-pressure area goes away.



2. Cautions

- (1) Caution in installation
 - Do not place the device where dusts, organic solvents, corrosive or inflammable gases are scattered.
 - Do not place the device near an exhaust vent of an air conditioner, near doors or windows that contact with outdoor air, near vibration or heat source, upon a tilted wall, under a direct sunlight, or where water splashes.
 - Do not cover the device with a vinyl package or the like aiming at water resistance, or the reading turns out to be inaccurate.
- (2) Caution in use
 - After unpacking or when the ambient has changed rapidly, wait for around 15 to 30 minutes before the device indicates an accurate value.
 - Do not drop, crash, disassemble, or customize the device.
 - Do not transport the device without double-boxed packaging.
 - Do not leave the device in a place like an automobile on a fine summer day, or the extreme heat may damage it.
 - Due to the precise mechanism inside of it to propagate the volume change of a vacuum chamber caused by changes in barometric pressure to the pointer, any impact on the device may result in malfunction.
 - Do not use the device outside of the measuring range.
 - Do not wash or wipe the device with alcohol, thinner, or any organic solvents. Instead, wipe it with a tightly-wrung towel dipped in warm water with neutral detergent.
 - Do not touch the adjustment screw except for correction to sea level or calibration with standard mercury barometers. Initially, a sticker covers the screw to prevent misuse.

3. Specifications

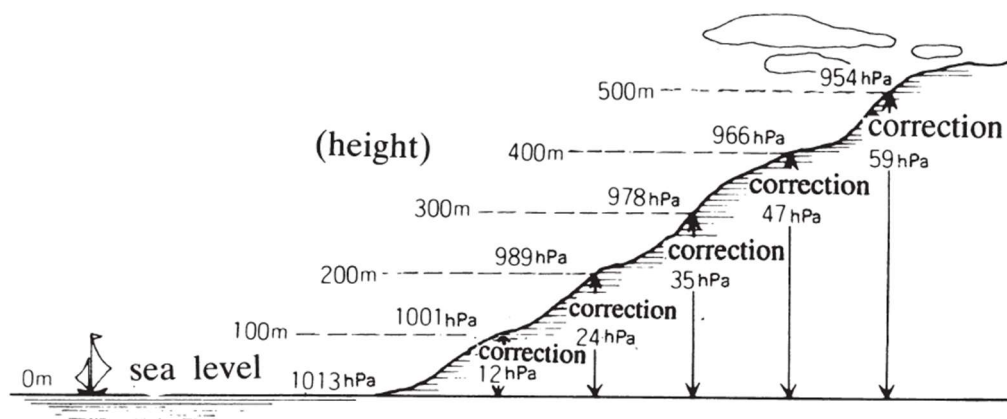
Catalog No.		7610-20
Product name		Aneroid Barometer with Glass Thermometer
Air pressure	Sensor	Bellows chamber
	Measuring range	930 to 1070 hPa, 700 to 800 mmHg
	Minimum scale	1 hPa, 1 mmHg
	Accuracy	±1 hPa (980 to 1020 hPa) ±3 hPa (other)
Temp.	Sensor	Colored kerosene
	Measuring range	-10 and 50°C
	Minimum scale	1°C
	Accuracy	±2°C
Material		Buffed brass with clear paint, glass plate
Dimensions		Ø158 × 50 mm depth
Weight		690 g
Standard accessory		Instruction manual

4. Sea Level Correction

To compare a measured pressure value with other values at different heights, conversion to values at a certain altitude is required. The mean sea level is defined as a global standard when it comes to atmospheric pressure.

As altitude increases, the air becomes less dense and exerts lower pressure. This relation is approximated by falling of 12 hPa per 100 m of height difference, as illustrated below. For example, if a barometer indicates 1001 hPa at a height of 100 m above sea level, it can be converted to 1013 hPa above sea level.

This calculation is referred to as correction to sea level, and any atmospheric pressure data announced by weather authorities are corrected. In practice the calculation requires temperature data as well.



5. Warranty Policy

Our products are warranted to be free from defects in materials and workmanship for a period of one year from date of delivery. If repair is necessary and has not been the result of misuse, force majeure, or transportation arranged by yourself within this period, please return the products on freight prepaid basis. Correction of the defect will be made without charges. We alone will determine if the product problem is due to deviations or customer misuse.

Out-of-warranty products will be repaired for a fee.

Before returning, request for our acknowledgement first.

6. Further Reference

Visit our website <https://www.sksato.co.jp/en/> for the latest information.

For repair, calibration, and other further information, contact us or a retailer from which you have purchased.



SATO KEIRYOKI MFG. CO., LTD.

3-4, Kanda-kajicho, Chiyoda-ku, Tokyo 101-0045 Japan

<https://www.sksato.co.jp/en/>