

# Sundial Horizontal Instructions



## **Assembling your Sundial.**

To protect from any transit damage your sundial comes with the gnomon detached from the main dial plate. Simply push the gnomon into the two available holes, the fit will be tight to ensure rigidity so you may have to push quite hard.

## **Setting your Sundial.**

Your horizontal sundial consists of the dial plate, marked off in hours, and the gnomon which sits on the noon line and projects out from the dial plate. To tell the correct local time the gnomon angle must be parallel with the earth's axis for your given location and be pointing true North.

Your sundial gnomon comes from the factory set at 52.5 degrees. This is the latitude for central UK which is accurate for the UK and northern Europe. On a sunny day, with your watch showing 12 o'clock, stand with your back to the sun - you are now facing North. Place the dial on your chosen location with an angled gnomon facing away from you. Then move out of the way so that the sun shines on the dial and the gnomon casts a shadow. Turn the dial until this shadow is over the 12. It can now be fixed to your plinth with either glue (E.g No Nails Exterior) or using rawlplugs and screws through the two mounting holes.

## **Accuracy.**

Your sundial uses the light from the sun to show the local time. This is different from the Mean Time shown by your watch. For every degree of longitude to the West of Greenwich, the dial will appear to be 4 minutes slow.

The sun also varies its timekeeping throughout the year, which further complicates the apparent difference. This is referred to as The Equation of Time. In February the sun and therefore your dial will be as much as 15 minutes slower than your watch. From late October to early November, the sun will be 15 minutes ahead of your watch.

## **Wall Mounted Sundial.**

The gnomon angle is parallel with the co-latitude of central UK which will be fine for most of central and northern Europe. For best accuracy, your sundial is designed to be mounted facing true South. The sundial is also set to Greenwich Mean Time (GMT).

For more information, visit: [Circularandco.com/instructions](https://circularandco.com/instructions)  
or contact: [Support@circularandco.com](mailto:Support@circularandco.com)