



## Sentripod

*Nothing else measures up!*



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## Operating Instructions

# Sentripod

Sentripod is a geodetic point fixing device that may be track mounted, tripod fixed or free standing. It is designed to return measurements from any angle about its axis to an EDM or total station. The system enables precise point fixing of any number of Sentripods, which revolutionises target recognition.

## Operating Instructions

Observe to the centre bead or convergent cones within the target. This ensures consistent results from whatever angle. By setting the target vial vertically it becomes easier to bisect this way.

The user-defined constant of the instrument must add 5mm to the manufacturer's standard. Setting the instrument to "sheet" mode and/or long range is required normally.

Precision range of 1mm is possible up to 60 metres for monitoring. This will enable bays of around 120 metres to be observed most clearly on railways.

For general surveying a tolerance of 2 or 3mm is adequate, thus extending the range up to around 150 metres with Sentripod prisms.

For track mounting on railways it is best to make sure the unit is securely set within the clip. Holes in the back of the clip enable a lock screw to be fitted to retain the Sentripod. Contact adhesive is another option. Before using the target make sure that there is sufficient tightness between the white rotary target holder and the case. To do this take a broad screwdriver, insert between the cylinder target and the white holder and twist the rotor through 90° to expose the bottom of the vial. Then insert the screwdriver into the bottom of the vial and twist to obtain the tightness required.

Once the rail clip and Sentripod are ready and the vial wiped clean of fingerprints with a damp chammy, the whole unit may be hammered

firmly to the base flange of the rail. Industrial gloves are recommended both for the fitting and removal of the clip.

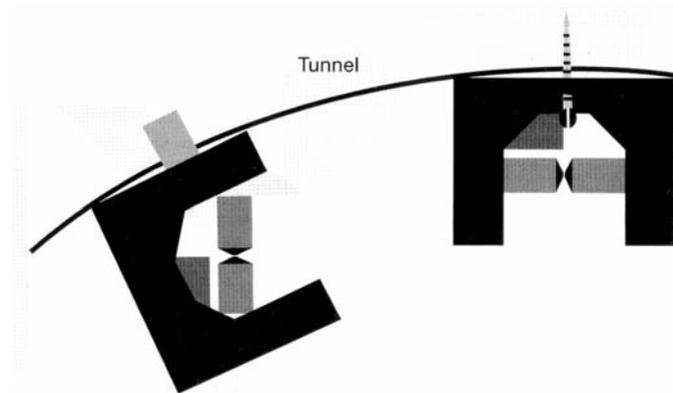
It should be possible to turn the vial to vertical with the spirit bubble as a guide. If the vial is likely to move excessively a small amount of quickset glue may be applied to the rotor.

If, whilst on the track, the reflective element acquires a residue of brake dust, a quick wipe with a damp chammy will restore to original condition. This should, of course, only be done according to rail safety regulations.

Never kick off the clip as it may distort the product. Strong leverage between clip and rail is quick and effective.

We advise score mark or paint spray application to the clip position on the rail base in case of unforeseen displacement.

Diagram shows: Tunnel Roof Fixing  
Where 5/8" rod is drilled and Sentripod screw fixed as shown to rod.



"Prism" Reading Constant		
Instrument	Mode	Constant
GEODIMETER	Sheet long range	39mm
LEICA	Sheet	39mm
PENTAX	Sheet	5mm
TOPCON	Sheet	5mm
NIKON	Sheet	5mm
SOKKIA	Sheet	5mm