

Monkton Protractor



To Use for Navigation Symbols

Using a craft knife and straight edge, cut out the three standard symbols for Visual Fix, Electronic Fix, and Estimated Position.

Also drill a hole in the centre of the Protractor, using a needle point, for the pencil-marking of a Station Pointer Fix.

To Draw a Known Bearing :

Align centre hole on Origin of position line.

Place pencil point against Required Bearing on **outer** scale and Mark.

Align straight-edge between Origin and pencil Mark

Draw Bearing as required between Origin and Mark.

To Measure a Bearing from a line:

Place centre hole where bearing intersects a meridian of Longitude.

Align protractor Zero Triangle mark with bearing.

Read off Bearing on **inner** scale.

Check for 'correct sense' or reciprocal e.g, northeast or southwest.

To Use as a Station Pointer :

Note the three observed Points A, B, C, and their Bearings

(or their 'Horizontal Sextant Angles' A-B, B-C)

Draw the Bearings onto the protractor top surface, from the outer scale to the centre, using pencil or spirit pen.

(draw Horizontal Sextant Angles A-B, B-C to the left and right of the Zero Triangle mark, which is the centre bearing B)

Align protractor on chart until the three lines pass through the three Points.

Plot the Fix through the centre hole.