

TOTAL STATION – INSTRUCTIONS FOR USE AT SET POINT

1. Positioning and levelling with the Tripod

- Set tripod up over the marker with plate as level as possible
- Place total station on tripod and screw in place, with the sides of the tribach aligned with the sides of the tripod plate.
- Look through the tribach periscope to check that the marker can be seen – move the tripod as necessary.
- Level using the legs adjusting against the central spirit level. Move leg nearest to the bubble to move it to the centre.
- Check that you can see the marker through the tribach periscope

2. Levelling the Total Station

- Turn **ON**
- Press **Menu** then **Level** then **Rec**
- **Adjust level** both horizontally and vertically – two arrows will face each other when level. Turn the Total station so that it is aligned with one of the faces of the tripod plate.
 - Horizontal – use tribach knobs on left and right turning together, but in opposite directions
 - Vertical – use back tribach
- Press **Cont**
- Check position over the peg using the view finder and adjust using the base plate knob. Repeat process if necessary.

3. Setting Up the Position

- Press **Menu** then **Prog** then **Set Station** – Datum Screen Int Mem will appear.
- Measure height of total station from ground to notch & enter in height section – Press **Cont**
- Select **Set Station** – this confirms the known place
- Press **Cont**
- **Orientation Screen** will appear with **Get Data** – view finder needs to be pointing in the direction of the selected datum point.
- **PT** – enter BH00001 (Point by Bothy)
- Press **Cont** – confirms point agreed.
- Align with the staff at the agreed point – this sets up the angle.
- Press **Cont** – **Orientation Set** is displayed.
- Should return to the prog menu
- Press Code – should get a reading display and will be ready to measure.

4 Taking a measurement

- Align on staff and then press **Dist** – the station will click like a camera. Record the measurements E, N and H.

Note:

- Once set up you can switch the Total Station off and back on. The **Dist** screen will automatically be displayed ready for the next measurement.