

Precision Geomatics

SETTING OUT FUNCTION ON SET500/600

Set up and level the instrument over ground mark in the normal way, switch on and initialise the circles.
Or set up and roughly centre, switch on, initialise, then centre and level using the electronic bubble.
In Measure Mode, FUNC, TILT, bring bubble to centre of circle or use bring X,Y tilt values to zero.

1. Select Setting Out function, FUNC, S-O, then scroll to:
2. Stn data -- Enter the co-ordinates of the set up point. Edit to enter by hand, selecting the values from the bottom of the screen, FUNC key switches values. Or Read the required point number from the Memory. Enter Instrument and Target height if required. OK.
3. Scroll to Set H angle, and then Back sight. Enter co-ordinates of Back Sight point / RO point, by Edit or Read. OK, this then displays Stn co-ordinates. OK. Set H angle -- Take BS -- YES, this calculates back bearing.
4. Scroll to EDM to set measuring mode, i.e. Rapid "s", Prism and PC - 30, scroll down to check ppm = 0. ESC.
5. Scroll up to S-O data. Either enter the setting out data; SO dist and SO hang using Edit. Or, if using co-ordinates, COORD.

6. Enter required co-ordinates by EDIT or READ, and target height if required. You can record the point co-ordinates into the memory, REC; edit point number if required. OK. The SO dist and SO hang are displayed. OK.
7. Setting out can be undertaken in different ways, dHA, with H, S, V, Ht distances, or by E,N,Z co-ordinates. Select by scrolling using DS-O key. Normal mode is dHA with H dist.
8. Then press F3 the double arrow key.

This displays the direction to turn the total station to the line at approximate position press the DIST key. The distance to move back or forward will be displayed.
9. When point positioned, ESC and repeat for next point.

Memory:

Set500 has a 4000 pt memory, Set600 2000 pts.

Data input by hand and recorded goes into a central memory for later recall. Data can also be entered into the memory via a computer using ProLINK Comms, a free program available from Precision Geomatics.