

## Precision Geomatics Ltd

### DETAIL SURVEY 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. Detail Surveying records data into a job.  
Front Screen, MEM  
Job, Job Selection, scroll to next available job (10 jobs)  
Enter, then scroll to JOB name edit, and give name.  
ESC to main screen. MEAS.
2. Select REC function, then scroll to:
3. 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, Target height and Code.  
OK.
4. To set BS angle, ESC, FUNC, H.ANG.  
Select H Angle or Back Sight if BS co-ordinates available  
Enter HAR, or 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.
5. EDM to set measuring mode,  
i.e. Rapid "s", Prism and PC - 30, scroll to check / set ppm value. Edit if required. ESC.

6. Return to REC, select data type, Dist data for output to SDRMap & Design, Coord data for AutoCAD etc  
DIST, takes measurement, REC allows editing of Pt.No., Target ht, and Code. Arrows moves up and down code stack (40 codes). OK, saves the observations.  
AUTO, takes measurements and records, Pt.No. increments, Target ht and Code stays the same.  
OFFSET, allows offset by distance or angle.
7. To view data, ESC, Scroll down to View, select point.  
Return by, ESC, ESC, scroll to data mode. Continue.
8. Download data.  
Set communication parameters.  
CNFG, Comms setup.  
Baud rate: 9600, 8bit, Not set, 1bit, No, No. ESC.  
Set receiving package to the same settings.  
MEM, Comms output.  
Scroll to job, Enter, OK.

#### 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 SDRMap & Design, or ProLINK Comms, a free program available from Sokkia or off the Sokkia web page ([www.sokkia.nl](http://www.sokkia.nl)).