

# PRECISION GEOMATICS

## DETAILING FUNCTION ON SERIES100 INSTRUMENTS

Set up and level the instrument over ground mark in the normal way, switch on and initialise the circles.

Or set up, Shift (SHF) and then the Decimal Point, centre and level instrument using the electronic bubble. Press DIGIT, then precisely level by bringing X,Y tilt values to zero. ESC and initialise the circles.

1. Detail Surveying records data into a job.

Front Screen, MEM

JOB, JOB selection, scroll to next available job (24 jobs) EDIT, and enter name. ENTER.

Displays Job list, ENTER again to set job.

ESC, ESC to main screen. MEAS.

2. Select REC function, FUNC, REC, then scroll to:
3. Stn data -- Enter the co-ordinates of the set up point. Enter co-ordinates, point no., code and instr. ht. using the Keyboard. If you scroll further the EDM functions can be set.  
Or Read the required point number from the Memory, and the additional settings added as above.  
OK.
4. To set BS angle, ESC, FUNC, H.ANG.  
Select H Angle and enter bearing.  
Or BS if co-ordinates available  
Display shows Station co-ordinates, scroll to EBS and enter co-ordinates or read from Memory.  
OK -- Take BS -- YES, this displays the calculated back bearing. ENTER to set bearing.

5. 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.

6. To view data, ESC, Scroll down to View, select point. Return by, ESC, ESC, scroll to data mode. Continue.
7. 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.
8. MEM, JOB, Comms output.  
Select SDR  
Scroll to job, Enter to send data.

Memory:

Series100 instruments have a 3000 pt memory.

Data observed will go into the Job memory and can be downloaded into SDRMap & Design for processing, or ProLINK Comms to save as a DXF or ASCII file. ProLINK Comms, a free program available from Sokkia or from the Sokkia web page ([www.sokkia.nl](http://www.sokkia.nl)).