

PRECISION GEOMATICS

CO-ORDINATE 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. If the co-ordinates are to be saved it is necessary to set up a job before proceeding.

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 COORD function, FUNC, COORD, then scroll to:

3. Stn data -- Enter the co-ordinates of the set up point.

Enter by hand using the Keyboard. REC if required.

Or Read the required point number from the Memory.

Enter Instrument and Target height if required.

OK.

4. Scroll to Set H angle, and then BS.

Enter co-ordinates of Back Sight point / RO point, by Keyboard or Read.

OK, this then displays Stn co-ordinates, EO, NO, ZO, and the BS co-ordinates, EBS, NBS, ZBS.

OK -- Take BS -- YES, this calculates back bearing.

ENTER to set the back sight bearing.

ESC.

5. Scroll up to Observation.
This will measure to the prism and give the co-ordinates of the point.
6. OBS will take another reading.
HT will allow changes to instrument and target heights.
REC will save the co-ordinates, the next screen will then allow editing of point number, code and target height.
OK to save data.
OBS to take next measurement.
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.

MEM, JOB, Comms output.
Select SDR
Scroll to job, Enter to send data.
8. To change EDM settings, FNC, EDM, set ppm, Reflector and PC as required, scroll down to Mode:
Normal settings would be:
ppm: 0, Reflector: Prism and PC: - 30, Rapid "s".
ESC, to return to setting out.

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.