

Precision Geomatics

DETAIL SURVEY FUNCTION ON SET310K/SET510K/610K

Set up and level the instrument over ground mark in the normal way, switch on, the circles are initialised automatically. Or set up and roughly centre, switch on, then centre and level using the electronic bubble.

In Measure Mode, FUNC, TILT, bring bubble to centre of circle or use the X,Y tilt values to zero the bubble.

1. Detail surveying saves data into a job so it is necessary to set up a job before proceeding.

Front Screen, MEM

Job, Job Selection, List, scroll to next available job. Enter.

Leave S.F.= 1.0000. Enter, ESC, then scroll to JOB name edit, Enter, and give name, Enter.

Repeat for Coord search JOB to select another job for recall of control coordinates, if required.

ESC to main screen. MEAS.

2. In MEAS mode, select REC.
3. Stn. data -- Enter the co-ordinates of the set up point by hand(overwrite existing values shown). Use the the keypad to enter the numerics.

Or Read the required point number from the Memory.

Enter Instrument, Target height, Code and other details by scrolling down. OK.

4. Select EDM to set measuring mode, i.e. Rapid "s", Prism and PC - 30, scroll down to check ppm = 0. ESC.

5. To set Back Sight.
Select Back Sight Data. If using an RO azimuth select Angle, Enter, and then enter the azimuth. Then press REC

and OK. If using a back sight coordinate, select Coord, and then enter co-ordinates of Back Sight point / RO point, or Enter via the Read key (F1).

OK, this then displays HAR and Azimuth

Press REC

Press OK (after first checking that the code,tgt Ht and Point No. are at your required values).

6. Select data type, and Enter. Angle data – angles only.
Dist data – angles & distances; Coord data – coords only.
Dist + Coord data – angles & distances, + coords.
Scroll down to enter a Note or View observed data.

7. DIST (F2) to take an observation. Use for initial obs.
REC – enter Code Tgt.h and scroll to Pt. no.,. Overwrite Values or in case of codes use keypad and SFT KEY or select from code stack (LIST). ADD, adds current code to code list, for future selection and then OK.
AUTO (F1) to automatically observe point, increment point no and keep code,Tgt Ht and save automatically.
OFFSET (F3) allows offsets by distance or angle.

ESC Scroll to View to look at data. Scroll to point, Enter.

8. Download data. MEM, JOB, Enter. Scroll down to Comms setup, set communication parameters.
Baud rate: 9600, 8bit, Not set, 1bit, No, No. ESC.
Set receiving package to the same settings.

Scroll up to Comms output.

Scroll to job, Enter, Out appears next to Job, OK.

Memory:Set310K/Set510K/Set610K 10,000 pts.

Data can be input by hand into a defined job, and then recalled when that job is selected under the Coord Search Job option. Data can also be entered into a job via a computer using Mapsuite+, or ProLINK Comms,