

Surveying with the Topcon 220 Series (also for use with 210 series)

Beginning Survey Data Collection

Press (F3) FS/SS to begin survey data collection of your new points
Input point number, point code and reflector height (pogo)

Press (F3) Measure

Press (F2) SD (Slope distance) i.e. raw data **

Note: After pressing (F3) & (F2) as above, on your first point you can record subsequent points by pressing (F4) All

The instrument will now measure, display and store the surveyed point.
The next number will be displayed, along with the previous point code, you may overwrite these if required.

** Measuring in Co-ordinate Mode (NEZ)

You may wish to measure in co-ordinate mode only - at this point, choose (F3) NEZ and (F4) All or subsequent measurements.
Please note that you will not be able to download into Civilcad (version 5) survey software as bearing and distance (SD) measurements are anticipated.



Offsets - Measuring Inaccessible Points

Place the prism next to the point that you wish to measure.
Press (F3) Meas instead of (F4) All.

Press (F4) Offset

Press (F1) Ang. Offset

At 'Sight?', collimate the prism and press (F3) Yes and a measurement is taken.

Using the horizontal screw, collimate the required point (toggle the  key to display HD, SD VD and the  key to display NEZ.

press (F3) Yes to Record.

Move to your next point remembering to
Press (F3) Meas and (F4) SD for normal measurement.
You can then use (F4) All as before

F3

FS/SS

F3

Measure

F2

SD

F4

All

F3

NEZ

F4

ALL

F3

Meas

F4

Offset

F1

Ang. offset

F3

Yes

 or 

F3

Yes

F3

Meas

F4

All

Surveying with the Topcon 220 Series (also for use with 210 series)

Level instrument using plate bubble
Power on using green button
Turn horizontal/vertical axis

Press (menu)

Press (F1) Data collect - Selecting survey program
Select a file - to store collected data in

Choices are -
(F1) Input a new file name
or
(F2) list to pick an existing file from list

Setting on a known point & Orientating Instrument.

Press (F1) OCCUPIED POINT
Input occ. Point number, id code and instrument height

Press (F4) OCNEZ - to input occupied point co-ords

Press (F3) NEZ

Input co-ordinates of occupied station and press (F4) Enter
- the instrument sets the coordinates and prompts >rec?

Press (F3) Yes

Press (F4) Enter

Press ESC to return to menu

Press (F2) BACKSIGHT
Input backsight number, Point code and reflector height

Press (F4) BS

Press (F3) to input co-ords of backsight

or

Press (F3) again to input (az) backsight bearing

Press (F3) Meas

Record backsight information by bearing only using (F1) VH

or

Record backsight information Measured to prism using (F2) SD



menu

F1

Data Collect

F1

Input

F2

List

F1

Input

F4

OCNEZ

F3

NEZ

F4

Enter

F3

Yes

F4

Enter

Esc

F2

Backsight

F4

BS

F3

or

F3

AZ

F3

Meas

F1

VH

or

F2

SD