

## Surveying with the Topcon Z2U Series (also for use with Z1U 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) IEZ** 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) Measure** 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 **y** key to display HD, SD VD and the **B** 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

**y**

or

**B**

**F3**

Yes

**F3**

Meas

**F4**

All

## Surveying with the Topcon Z2U Series (also for use with Z1U 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

### Orientating Instrument

Press **(F1) OCCUPIED POINT**

Input **occ. Point number, id code and instrument height**

Record Yes or No ? - Press **(F4) No**

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

Press **(F3) NEZ**

Input co-ordinates of occupied station and press **(F4) Enter**

Press **(F3) Record**

Press **(F3) Yes**

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**

No

**F4**

OCNEZ

**F3**

NEZ

**F4**

Enter