

SURVEYING WITH THE TOPCON 600 SERIES

Power on
Turn Horizontal and Vertical Axis

Select F1 – PROGRAMS
Select F1 – STDSVY

<Enter> JOB
NEW JOB / OPEN JOB

After opening or creating a new job
Scroll across using arrow keys to RECORD

- Select OCC PT <Enter>
Input Occupied Point number, Instrument Height and Point Code.
Enter Occupied Point NEZ
(N.B. if the occ/pt number has been stored in the memory, you will not be prompted for this information - see 'INPUT/EDIT OF POINTS')
- Select BKS PT <Enter>
Input Backsight Point number, NEZ and Point Code.
(N.B. if the bks/pt number has been stored in the memory, you will not be prompted for this information - see 'INPUT/EDIT OF POINTS')
<Set> Bearing
Sight prism and press <Enter>
- Select SS OBS (Side Shot Observations) <Enter>
N.B. At this point, user MUST use arrow keys for input of point information.
Input Point Number (↓) – NUMERIC FIGURES ONLY, Prism Height (↓), Point Code (↓) and String if any
N.B. User can enter Point Code by selecting P2 and F5 'LIB'
Sight prism and press <Enter> to record measurement and <OK> to accept.
Point number automatically increments for next data to be recorded. Prism Height, Code and String remain same

STRING LINES/CONTROL CODING

- Enter Code e.g. KB and String Line number e.g. 01 and points will string together when downloaded. To remove string number, go to P2, use → to bypass number entered and ←BS (backspace) to delete.
- To input a control code, e.g. end of arc, go to P3 and select CTRL and input code.

OFFSETS

To record an offset either:

- a) Sight prism and press F5 <MEAS>, go to P2, select F2 <OFFS>
Input offset and press <Enter>
Display will revert to previous screen when <Enter> should be reselected to confirm offset adjustment.
N.B. offsets are positive away from, to the right of, and vertically upwards as viewed from the instrument.
- b) Sight prism and press F5 <MEAS>
Swing instrument to sight required point
Press <Enter> to record measurement and <OK> to accept.

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EDITING RAW DATA

Scroll across using arrow keys to EDIT when job created or opened
Select RAW
Use ↑↓ arrows to scroll to data requiring editing
Enter new data (automatically overwritten) and <Enter>
<Esc> to return to menu

INPUT POINTS

Scroll across using arrow keys to EDIT when job created or opened
Select POINTS
Enter Point Number, NEZ and Point Code and <Enter>
At 'TYPE OF POINT?' prompt, select F5 <NEZ>
Select F6 'P2' and press F5 'COPY' key to copy point to FIXED POINT LIBRARY.
<Esc> to return to menu

EDIT POINTS

Scroll across using arrow keys to EDIT when job created or opened
Select POINTS
Use ↑↓ to access required data and overtype.
Select <Enter> at the end of each screen to accept.
<Esc> to return to menu

FIXED POINT LIBRARY

Allows storage of commonly used points e.g. control stations, and can be accessed by any jobs when the <STN FILE> option is <ON> (First menu SYSTEM OPTION). Points can be stored directly using the same method as INPUT/EDIT OF POINTS.

INPUT POINT CODES

Scroll across using arrow keys to EDIT when job created or opened
Select CODE
Select F1 'ADD' and input Layer Name e.g. ROAD and <Enter>
ADD layers as required.

Select a layer using ↑↓ and <Enter>
Input Code e.g. KB, GULLY followed <space> and DXF entity as follows:

'1' indicates 'point'
'2' indicates 'line'
'3' indicates 'polyline'

<Enter> to accept
<Escape> x2 to return to menu

DOWNLOAD TO DXF

Scroll across using arrow keys to XFER
Select SEND and <Enter>
Scroll down to DXF and <Enter>
Select <OK> at the "Ready?" prompt