

Magnet Office 5 data upload/download to/from Sokkia SET530 (OS: Win10)

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1. Driver installation for Prolific USB-to-Serial cables

Windows 10 always update the driver to the latest version (e.g. v3.8.28.0, dated on 1/10/2018). It does not support the USB cable built prior 2010. The driver with our cables can be downloaded from <http://www.sage.unsw.edu.au/Total%20Stations>.

- Plug in a Prolific USB-to-Serial cable to computer. Search Device Manager and start
- Expend Ports (COM T LPT)
- If a yellow triangle warning icon shows with Prolific USB-to-Serial Comm Port (COM#), it means the current driver is not compatible with the cable connected. Next steps are required.
- Right click Prolific USB-to-Serial Comm Port (COM#). Property. Driver. Uninstall device. Select Delete the driver software for this device. Uninstall.
- Disconnect the Prolific USB-to-Serial cable from computer
- Install the downloaded driver
- Connect the USB cable. (make sure there is no yellow triangle warning icon shows with Prolific USB-to-Serial Comm Port)
- Right click. Select Port Settings
- Set comms parameters to 9600/8/no/1/no. and remember the COM#. OK.

2. Prepare point coordinate file in txt format Pt#, E, N, H, code or description e.g.

901, 100.000, 200.000, 33.000, PM901
999, 200.000, 300.000, 22.000, SM999

3. File/data upload into Sokkia via/from Magnet Office

- 1) Start MO 5. File / Data Transfer
- 2) Select Instrument Sokkia SDR33 and Com Port to match the COM# above
- 3) Set the comms parameters as above
- 4) If you upload your point data already in MO (shown in current window) rather than directly from a data file, skip next step.
- 5) Select Load File. navigate to your data file created in step 2. The data is shown in current window.
- 6) Prepare instrument: CNFG/Comms setup/set comms parameters the same as on the computer.
- 7) MEM/Known data/Comms input, instrument shows Receiving with 0 records.
- 8) Select Upload in MO and OK. Once uploading finished, instrument BEEPs once and displays the number of records uploaded.

4. File/data download from Sokkia into Magnet Office

- 9) Start MO 5. Survey / Raw Data Editor. New. Download Raw Data. Select instrument Sokkia SDR33. Correct COM# and comms parameters
- 10) You have an option to Save Raw Data File (provide file name and location).
- 11) OK. Don't start downloading, prepare instrument instead.
- 12) MEM/JOB/Comms output/Select a job/Entre, "Out" shows next to the jon#.
- 13) OK. Select SDR33 / Entre / select Obs data. Back to MO, select OK to start download
- 14) In 10 seconds, press Entre on instrument. Data will be sent and received.