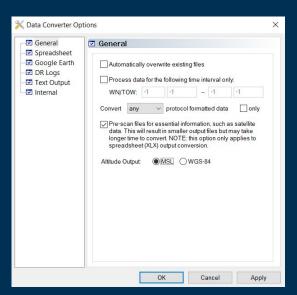
How to use Excel to NMEA convert tool

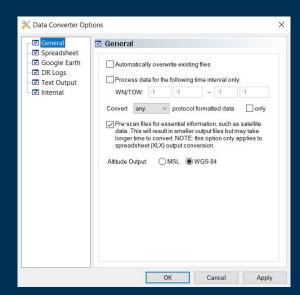




Better generate Both MSL and WGS-84: GGA item 9: MSL, item 11: (WGS - MSL)

When generate two DR xlx (MSL and WGS), copy the MSL or WGS column to the DR xlx you would like to use later .





Ĺ	М
Altitude (m MSL)	Altitude (m WGS-84)
4.18454	11.88454
4.185033	11.885033
4.185515	11.885515
4.185969	11.885969
4.186397	11.886397
4.186794	11.886794
4.187187	11.887187
4.187567	11.887567
4.188003	11.888003
4.188543	11.888543

It's OK to only use one type:

Only MSL: GGA item 9 would be MSL, item 11 would be 0 Only WGS: GGA item 9 would be WGS, item 11 would be 0





↑	↑ 🗁 C: > Work > Tools
1_DR	1_GNSS
Excel Workbook (*.xlsx)	Excel Workbook (*.xlsx)
More options	More options
New Folder	New Folder

s > xlsx2nmea > dist



Only generate single NMEA (e.g. GGA, RMC, etc.)

```
C:\Work\Tools\xlsx2nmea\dist>xlsx2nmea.v1.8.exe
XLSX to NMEA Version: 1.8
DR. xlsx, GNSS. xlsx, nmea type
(nmea_type:GGA/RMC/GSV/GSA or GGA+RMC, RMC+...)
[e to exit]: DR. xlsx, GNSS, xlsx, GGA
loading DR.xlsx...
done
loading GNSS.xlsx...
done
checking GGA index name in XLSX...
Orthometric height: WGS-84 Altitude, Geoid height: ZERO
done
GGA-v1.8-2023-Jun-15 14.07.43.txt created
converted 20855 lines into NMEA. 5331 lines missing in GNSS file.
DR. xlsx, GNSS. xlsx, nmea type
(nmea type:GGA/RMC/GSV/GSA or GGA+RMC, RMC+...)
[e to exit]:
```



Only generate single NMEA (e.g. GGA, RMC, etc.)

```
GGA-v1.8-2023-Jun-15 14.07.43.txt - Notepad
                                                                                                                                                                                                        X
File Edit Format View Help
$GPGGA,005346.550,1004,6280025 N,1211,9029088,E,9,25,0.59,11.88728,M,0,M,4,02*74
$GPGGA,005346.650, 104,63311503, N, 12111.90390373, E,9,25,0.59,11.891761, M,0, M,4,02*72
$GPGGA,005346.700,3 104 688 1208 N,1 211 99 200 99 E,9,25,0.59,11.894045,M,0,M,4,02*4C
$GPGGA,005346.800, 1004, 62816/2, N, L2111, 99399/61, E, 9, 25, 0.59, 11.898591, M, 0, M, 4, 02*7C
$GPGGA,005346.850,3104.60010073,N,121211.900809,M,0,M,4.02*74
$GPGGA,005346.900,,,,,,,,,,,02*47
$GPGGA,005346.950,,,,,,,,,,02*42
$GPGGA,005347.000,,,,,,,,,,02*4F
$GPGGA,005347.050,,,,,,,,,,02*4A
$GPGGA,005347.100, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10000, $10
$GPGGA,005347.150, $104,6$/$2005,N, $2221,908/$654,E,9,25,0.59,12.88163,M,0,M,4,02*49
$GPGGA,005347.200, 1004,68/50//8,N,L2111,998/8565,E,9,25,0.59,12.883144,M,0,M,4,02*77
$GPGGA,005347.250, $104.68/484.N,12 $11.998/148/.N,9,25,0.59,12.884516,M,0,M,4,02*76
$GPGGA,005347.300, 1004,02745042,N,L2111,00260255,E,9,25,0.59,12.885718,M,0,M,4,02*72
$GPGGA,005347.350, 2004 438402, N, 2004 438402, N, 2004 F, E, 9, 25, 0.59, 12.886831, M, 0, M, 4, 02*73
```



Generate multiple NMEA (e.g. GGA+RMC+GSV+GSA, etc.)

```
[e to exit]: DR. xlsx, GNSS. xlsx, GGA+RMC+GSV+GSA
loading DR.xlsx...
done
loading GNSS.xlsx...
done
checking GGA index name in XLSX...
Orthometric height: WGS-84 Altitude, Geoid height: ZERO
done
checking RMC index name in XLSX...
checking GSV index name in XLSX...
no SBAS
done
checking GSA index name in XLSX...
NMEA-v1. 8-2023-Jun-15 14. 18. 09. txt created
converted 20855 lines into NMEA. 5331 lines missing in GNSS file.
DR. xlsx, GNSS. xlsx, nmea type
(nmea_type:GGA/RMC/GSV/GSA or GGA+RMC, RMC+...)
[e to exit]: _
```



Generate multiple NMEA (e.g. GGA+RMC+GSV+GSA, etc.)

```
NMEA-v1.8-2023-Jun-15_14.18.09.txt - Notepad
                                                                                       X
File Edit Format View Help
$GNGSA,A,9,240,1.12,0.59,0.96*0D
$GNGSA,A,9,243,1.12,0.59,0.96*0E
$GPGGA,005346.150, 5104.60010541, N, 5111.0040021, E,9,25,0.59,11.889918, M,0, M,4,02*42
$GNRMC,005346.100,A,5104.50010025,N, FALL 00/40252,E,0.42768,0.264676,230423,*04
$GPGSV,3,1,8,2,11,42,38,4,40,234,43,7,24,317,36*7F
$GPGSV,3,2,8,8,69,239,44,9,34,277,41,16,47,43,48*49
$GPGSV,3,3,8,27,71,31,44,31,17,132,41*71
$GNGSA,A,9,2,1.12,0.59,0.96*09
$GNGSA,A,9,4,1.12,0.59,0.96*0F
$GNGSA,A,9,7,1.12,0.59,0.96*0C
$GNGSA,A,9,8,1.12,0.59,0.96*03
$GNGSA,A,9,9,1.12,0.59,0.96*02
$GNGSA,A,9,16,1.12,0.59,0.96*3C
$GNGSA,A,9,27,1.12,0.59,0.96*3E
$GNGSA,A,9,31,1.12,0.59,0.96*39
```



NMEA output

(always under the EXE folder, name as 'NAME-v1.x-YYYY-MMM-DD_HH.MM.SS.txt')

```
C:\Work\Tools\xlsx2nmea\dist>dir
 Volume in drive C is Windows
                                           Single NMEA will name as GGA/RMC-v1.x-YYYY...
 Volume Serial Number is 00D0-3C52
 Directory of C:\Work\Tools\xlsx2nmea\dist
06/15/2023 02:23 PM
                         (DIR)
            02:23 PM
06/15/2023
                         <DIR>
06/13/2023
            09:25 AM
                              4, 445, 161 DR. xlsx
06/15/2023
           02:07 PM
                              1, 525, 981 GGA-v1. 8-2023-Jun-15 14. 07. 43. txt
06/13/2023
           09:25 AM
                             11,657,697 GNSS.xlsx
06/15/2023
           02:12 PM
                             20, 761, 990 GSA-v1. 8-2023-Jun-15 14. 12. 45. txt
06/15/2023
           02:15 PM
                              7, 727, 979 GSV-v1. 8-2023-Jun-15 14. 15. 27. txt
106/15/2023 02:18 PM
                             47, 322, 921 NMEA-v1. 8-2023-Jun-15 14. 18. 09. txt
                              1, 298, 117 RMC-v1. 8-2023-Jun-15_14. 10. 20. txt
06/15/2023
           02:10 PM
06/15/2023
                             28, 982, 038 x1sx2nmea. v1. 8. exe
            01:58 PM
               8 File(s)
                             123, 721, 884 bytes
                2 Dir(s)
                          311,944,359,936 bytes free
                                  Multiple NMEA will name as NMEA-v1.x-YYYY...
C:\Work\Tools\xlsx2nmea\dist>
```



Thank You



Let me know if there are any misleading or incorrect: hawk gao@trimble.com

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