

Tektronix/Telestream Video Test Signal generators – and future GPS roll-over dates.

Tektronix (and now Telestream) provides GPS time capabilities in several of our Video test Signal Generator products.

In response to queries about the upcoming (April 6 2019) and future GPS roll-over events, the following overview provides a brief overview of when future rollover dates might affect our products.

Affected Tektronix/Telestream Video Test Signal Generator models, with GPS capabilities, include...

- SPG8000A – with option GPS
- SPG8000 – with option GPS
- TG8000 – with the GPS7 module installed
- TG700 – with the GPS7 module installed.

GPS receiver modules, quick overview

The GPS receiver circuit board modules that are used in the above products are pre-programmed by our vendor to accommodate future GPS roll-over events – approximately 19 years out from the date of manufacture. And, over time, newer GPS module revisions have been incorporated.

The table below provides a short list of GPS receiver “hardware ID and software version” numbers that have been used in Tektronix/Telestream generators, with their associated “good until” dates, starting with the oldest - Hardware ID 3002

| <u>Hardware ID</u> | <u>Software Version</u> | <u>Good Until...</u> |
|--------------------|-------------------------|----------------------|
| 3002 | 1.20 | Nov. 24, 2029 |
| 3015 | 1.06 | Oct. 15, 2033 |
| | 1.08 | Nov. 25, 2034 |
| | 1.09 | Feb. 16, 2036 |
| | 1.03 | Aug. 9, 2036 |
| 3023 | 1.04 | Aug. 9, 2036 |
| | 1.05 | Aug. 8, 2037 |

How to determine which GPS module version you have.

Within each instrument’s “SYSTEM” menu structure, the GPS receiver module’s revision information can be determined by the hardware ID number, followed by a version number.

For example - “ID 3015 v1.09”

Specific instructions for how to locate this information are noted in the following pages.

SPG8000 and SPG8000A

The GPS module ID and version number information for the SPG8000 or SPG8000A can be found within the SYSTEM menus – either from the front panel interface, or from within the Web GUI tool.

***NOTE** - SPG8000/A software version 3.0 or newer must be installed to see the full ID and version information.

From the Front panel....

Press the SYSTEM button.

Press the Down Arrow button – until SYSTEM : VERSION INFO (H/W) is displayed

Press the Right Arrow one time. You should see a series of codes – two of which will be ID and v#

For example - v3.9 DO:41 BB:59 ID:3015 1.06

This indicates GPS hardware 3015, and software 1.06

From the Web user interface

Select the SYSTEM tab, Status sub-menu.

The fourth text field down from the top will be “VERSIONS” – containing the desired information.

The “Reference” category will list – for example - v3.9 DO:41 BB:59 ID:3015 v1.06

(ID:3015 and v1.06 are directly applicable to this discussion.)

TG8000 / GPS7

The key GPS module ID and version number information for the TG8000 / GPS7 can only be found within the SYSTEM menus – at the front panel user interface.

***NOTE** – TG8000 software version 2.2 or newer must be installed to see the full GPS ID and version info.

From the Front panel...

Press the Module button several times, until TG8000 appears in the display's top line.

Press the Down Arrow button until UTILITIY appears in the display's top line.

Press the ENTER button

Press the Right Arrow button one time – until GPS7 appears in the display, second line.

For example - GPS7[1] v1.1 DO:41 BB:59 ID:3015 v1.08

ID:3015 and v1.08 are applicable to this discussion.

TG700 / GPS7

The key GPS module ID and version number information for the TG700 / GPS7 is not available through the user interface features. However, most all GPS7 modules that were installed in the TG700 during its production run were ID 3002 modules.

For other GPS roll-over questions related to Tektronix/Telestream generators that are not discussed in this document, please feel free to contact us at videosupport@telestream.net