## RAPCO TIME STANDARDS (Models 1804/1804L25E8B 2804 and 2816) (Discontinued)

1. Models 1804/1804L25E8B (Discontinued April 2013)

* Refer to (on our website) <https://spectracom.com/sites/default/files/document-files/Rapco%201804-2804-2816%20Discontinuance%20Notice.pdf>
* Replaced by SecureSync
* GPS-based time standard.

**NOTE**: Rapco products are retired/discontinued. But in some cases, can be replaced by SecureSyncs: Refer to “ Replacing a discontinued Rapco Model 1804/2804 with SecureSync” in: [..\SecureSync CustAssist.pdf](file:///C:\Users\Keith.Wing\Desktop\For%20HOME\1-%20Cust%20Assist%20documents\SecureSync%20CustAssist.pdf)

**Note**: Refer also to info in the Rapo Model 2804 section (next section down). the info on 2804s MAY also apply to 1804s????

**Shortcut to Rapco manuals (in Customer Service folder):** [EQUIPMENT\SPECTRACOM EQUIPMENT\Rapco (Spectracom UK)](file:///C:\Users\kwing\AppData\Roaming\Microsoft\Users\kwing\AppData\Roaming\Microsoft\Documents%20and%20Settings\kwing\Application%20Data\Microsoft\Word\EQUIPMENT\SPECTRACOM%20EQUIPMENT\Rapco%20(Spectracom%20UK))

Date/year issue occurred with 1804L-17 (date shows July3, 1996)

* This particular Model 1804 is an OEM Raytheon variant
* This issue reported by Raytheon 17 Feb. 2016
* Refer to Salesforce cases such as 21169 and 21170.
* Contact Spectracom France support for details

Email from Dave L (7 Feb 17)

Concerning the Rapco Model 1804 and 2804 GPS Systems.

As you know, these older Rapco models 1804 and 2804 have experienced a problem where the date has become erroneous. This is a problem caused by the GPS Receiver module. These 1804/2804 units have been discontinued for quite some time now and we have had no luck getting any updates for the GPS Receiver modules to resolve the problem. Since the technical expertise for these products is no longer available, it is not feasible to support firmware development on these obsolete products.

In your case the 10 MHz and 1PPS signals are not affected and will continue to operate normally, just the date will be incorrect so any NTP or Time of Day data from the 1804 will be erroneous.

Unfortunately, we have no solution for this problem. You may be interested in replacing the device with a new SecureSync GPS Time Server. Here is a link to our website for more information on the SecureSync.

<https://spectracom.com/products-services/precision-timing/enterprise-class-securesync>

~~The Rapco serial numbers all have six digits. so the correct serial number for the 1804 in question is 461501.~~

1. Rapco Models 2804 / 2804A / 2804B

(Models 1804, 2804 and 2816 Discontinued April 2013)

* Refer to (on our website) <https://spectracom.com/sites/default/files/document-files/Rapco%201804-2804-2816%20Discontinuance%20Notice.pdf>
* Replaced by SecureSync

**NOTE**: Rapco products are retired/discontinued. But in some cases, can be replaced by SecureSyncs: Refer to “ **Replacing discontinued Rapco Models 1804/2804 with SecureSync**” in: [..\SecureSync CustAssist.pdf](file:///C:\Users\Keith.Wing\Desktop\For%20HOME\1-%20Cust%20Assist%20documents\SecureSync%20CustAssist.pdf)

Shortcut to handbook: [EQUIPMENT\SPECTRACOM EQUIPMENT\Rapco (Spectracom UK)\Model 2804A](file:///I:\Customer%20Service\EQUIPMENT\SPECTRACOM%20EQUIPMENT\Rapco%20(Spectracom%20UK)\Model%202804A)

Email from John Westwood to Eva (5 Nov 2012)

At Basingstoke UK, we were Rapco Electronics in our previous existence - before becoming part of Spectracom/Orolia and we are still supporting Rapco products here.

The GPS receiver in the 2804A (Trimble SKII) is obsolete and unobtainable, but we have an alternative (Trimble Res-T) which we can fit (unit becomes a 2804B).

We have full repair facility for these units on site.

We do not manufacture these units unless there is no alternative Spectracom product available. I am not aware of a planned obsolescence date.

For most applications, the SecureSync is a suitable replacement, but please be aware of the limitations.

There are some options for the 2804A which are not yet available on the SecureSync

SecureSync Rb version is not suitable for digital broadcast applications

The 2804 serial data format is not available on the SecureSync serial interface

I do not have any record of a 2804 sale to Harris Corporation or Elotek, so I would be interested to know the serial number.

Attached is the latest version of the handbook for your information, but if you have any further questions please don’t hesitate to ask.

Serial commands

* Refer to list of available commands: [EQUIPMENT\SPECTRACOM EQUIPMENT\Rapco (Spectracom UK)\Model 2804A](file:///I:\Customer%20Service\EQUIPMENT\SPECTRACOM%20EQUIPMENT\Rapco%20(Spectracom%20UK)\Model%202804A)

Q **From Dave L to Les Lis**: I was working with our customer and have some information from our USAF customer in Colorado. They have about 5 of these units.

They have a Model 2804, so the commands are not the same as the 1804. The RC did not work. So, I looked through the manual and selected a couple commands I thought might help.

They told me they have put the unit in INHIBIT Mode and set the time and date manually. Otherwise it will be set to July 11, 1996.

Here are the commands we looked at and results:

Read GPS Status:             RGS = 00005A00 (the fourth digit is the battery health, 0 = battery OK) (receiver identity = 5A)

Read Software Version RSV = 08.06;10.10

Read Week Number:     RGW = 035D

Read Local Time                RLT = 201602254056120138 (This was manually set)

Read Hardware Configuration    @H = 1004A

If there are more commands you would like us to run, they have the unit right there and are willing to help. They are pretty anxious to get this resolved. It is an important system.

Just let me know what to ask them.

A. Reply from Frederique (26 Feb 16) Thanks for the feedback. Commands for 2804 are not the same than for the 1804. I have found the following commands list. See attached document. But these are only READ commands.

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* Contact Spectracom France support for details

Email from Dave L (7 Feb 17)

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