

Turning Off the GX-6000 TWA Alarms

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When a GX-6000 is used with a continuous operation adapter, the TWA alarm must be turned off on any channel that has a TWA alarm. The extended periods of operation made possible by the continuous operation adapter may result in false TWA alarms if the TWA alarms are left on. This supplement describes how to turn off the TWA alarms on a GX-6000.

Materials

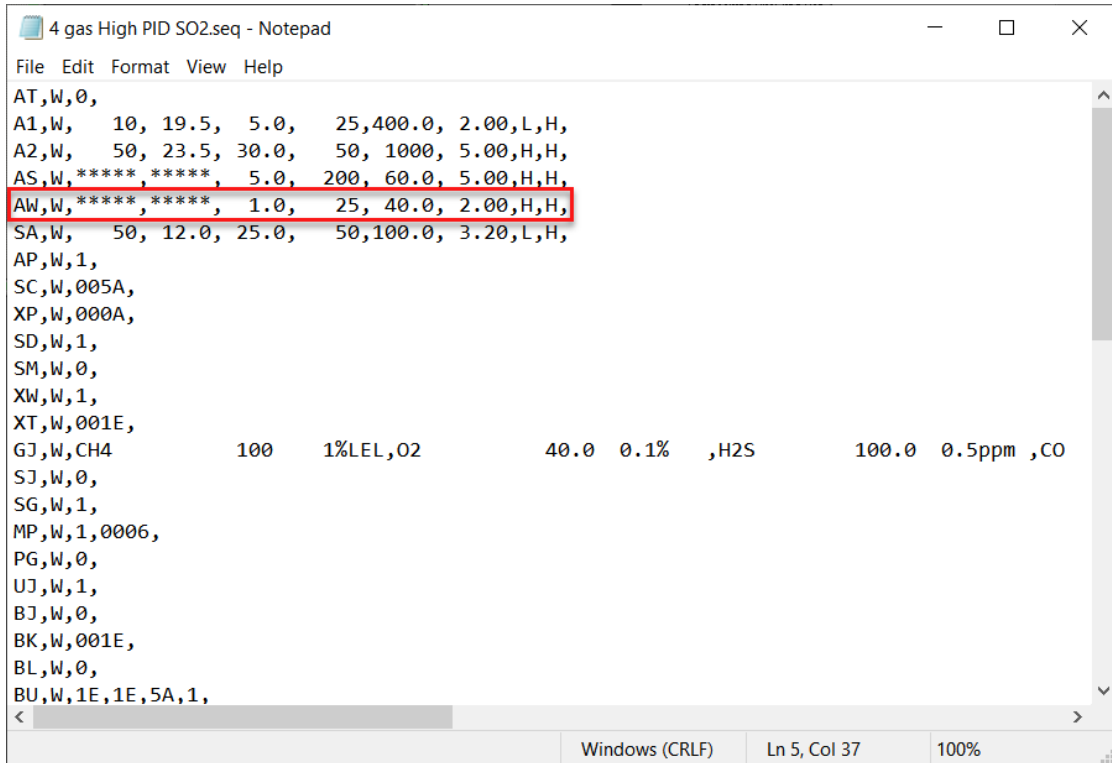
- IrDA cable
- Computer with 1) GX-6000 Factory Config Program installed (program available at www.rkiinstruments.com/download/gx6000-twa-off) and 2) a text editing program such as Notepad or Wordpad installed

Procedure

1. Plug the IrDA cable into your computer.
2. Launch the GX-6000 Factory Config Program. The password is 1994.
3. Align the GX-6000's IrDA port with the IrDA cable.
4. Turn on the GX-6000 using the POWER/ENTER button.
5. The program should indicate that the GX-6000 connection was successful.
6. Click the **Instrument Information** button.
7. Wait for the download to complete.
8. Click **Store Local File**.
9. Save the file in a convenient location and give it a name you will recognize. It will have a .seq file extension.
10. Navigate to the location of the saved .seq file and open it using a text editing program such as Notepad or Wordpad.

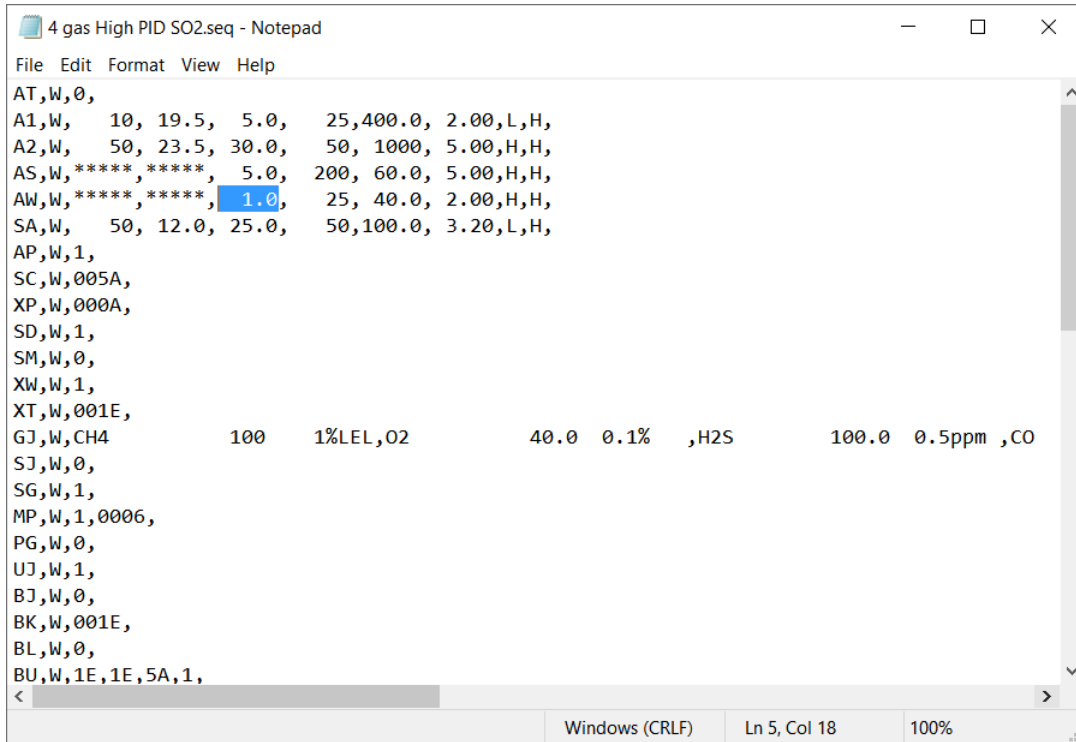
11. The 5th line of the file, which starts with “AW”, is where the TWA alarm point information is stored. The sensor order is LEL, O2, H2S, CO, smart sensor 1, smart sensor 2.

The example below is for a 4-gas + high range PID + SO2 instrument which means the sensor order and corresponding TWA alarm points are, from left to right: LEL (*****), O2 (*****), H2S (1.0), CO (25), PID (40.0), SO2 (2.00). “*****” indicates that the TWA alarm is off.



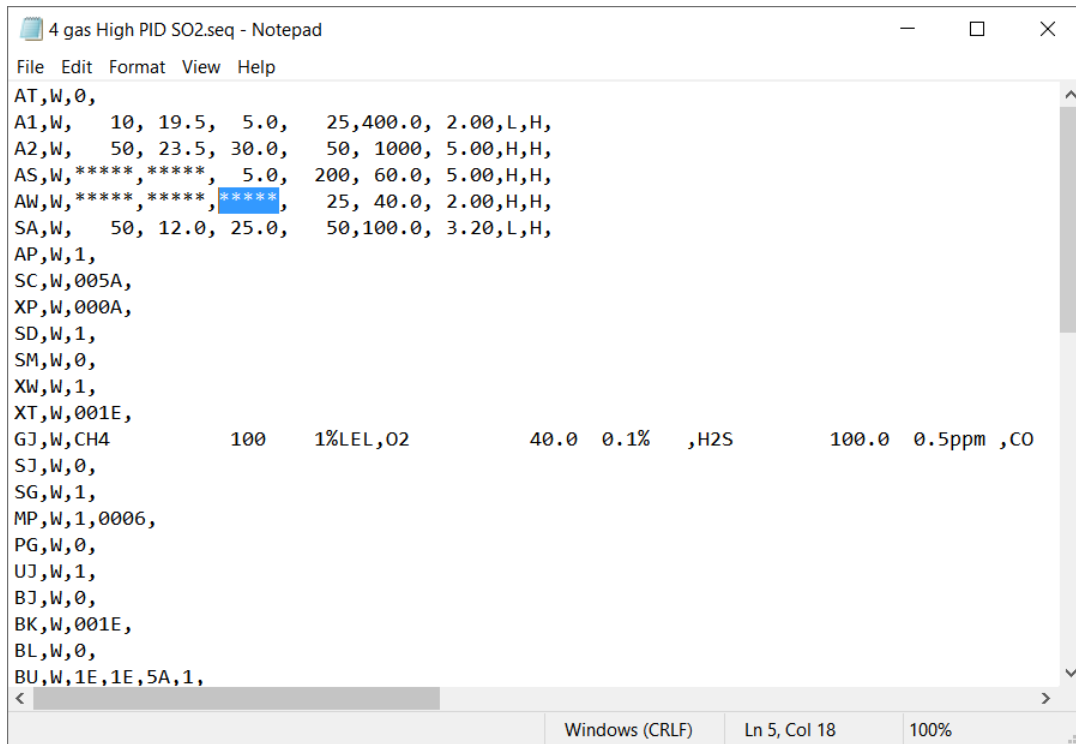
```
4 gas High PID SO2.seq - Notepad
File Edit Format View Help
AT,W,0,
A1,W, 10, 19.5, 5.0, 25,400.0, 2.00,L,H,
A2,W, 50, 23.5, 30.0, 50, 1000, 5.00,H,H,
AS,W,****,****, 5.0, 200, 60.0, 5.00,H,H,
AW,W,****,****, 1.0, 25, 40.0, 2.00,H,H,
SA,W, 50, 12.0, 25.0, 50,100.0, 3.20,L,H,
AP,W,1,
SC,W,005A,
XP,W,000A,
SD,W,1,
SM,W,0,
XW,W,1,
XT,W,001E,
GJ,W,CH4 100 1%LEL,O2 40.0 0.1% ,H2S 100.0 0.5ppm ,CO
SJ,W,0,
SG,W,1,
MP,W,1,0006,
PG,W,0,
UJ,W,1,
BJ,W,0,
BK,W,001E,
BL,W,0,
BU,W,1E,1E,5A,1,
< Windows (CRLF) Ln 5, Col 37 100%
```

12. For each TWA alarm that needs to be turned off, highlight the entire space between commas as shown below.



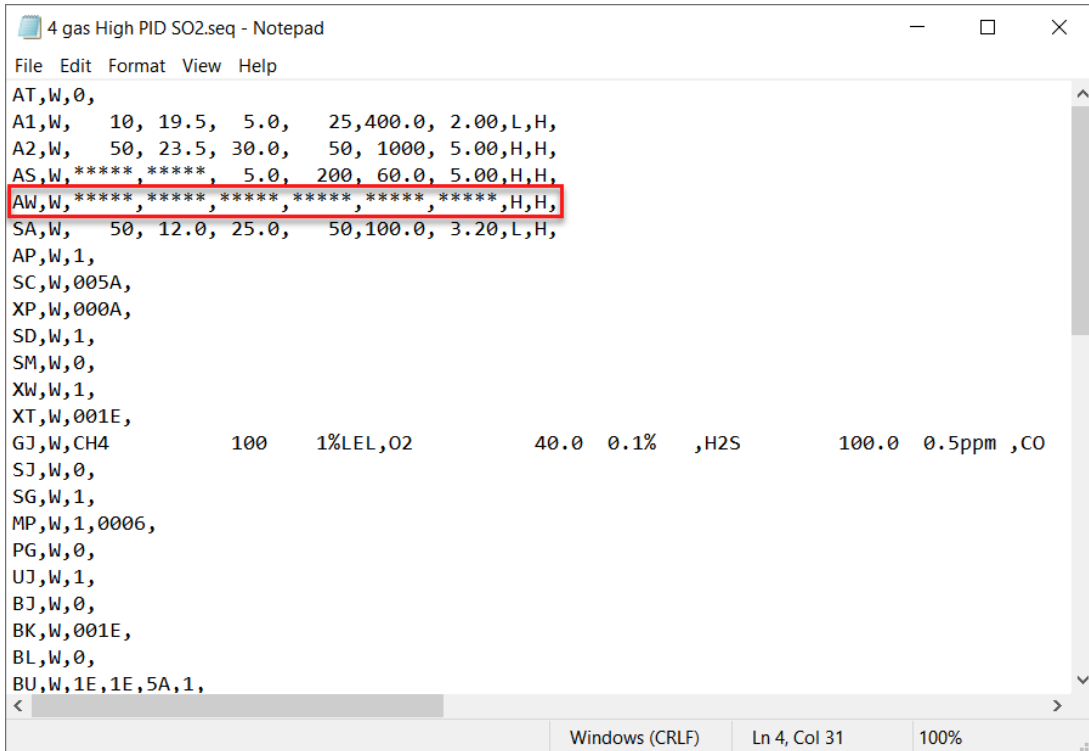
```
4 gas High PID SO2.seq - Notepad
File Edit Format View Help
AT,W,0,
A1,W, 10, 19.5, 5.0, 25,400.0, 2.00,L,H,
A2,W, 50, 23.5, 30.0, 50, 1000, 5.00,H,H,
AS,W,*****,*****, 5.0, 200, 60.0, 5.00,H,H,
AW,W,*****,*****, 1.0, 25, 40.0, 2.00,H,H,
SA,W, 50, 12.0, 25.0, 50,100.0, 3.20,L,H,
AP,W,1,
SC,W,005A,
XP,W,000A,
SD,W,1,
SM,W,0,
XW,W,1,
XT,W,001E,
GJ,W,CH4 100 1%LEL,O2 40.0 0.1% ,H2S 100.0 0.5ppm ,CO
SJ,W,0,
SG,W,1,
MP,W,1,0006,
PG,W,0,
UJ,W,1,
BJ,W,0,
BK,W,001E,
BL,W,0,
BU,W,1E,1E,5A,1,
<
Windows (CRLF) Ln 5, Col 18 100%
```

13. Type in 5 asterisks (*) as shown below. This turns the TWA alarm off.



```
4 gas High PID SO2.seq - Notepad
File Edit Format View Help
AT,W,0,
A1,W, 10, 19.5, 5.0, 25,400.0, 2.00,L,H,
A2,W, 50, 23.5, 30.0, 50, 1000, 5.00,H,H,
AS,W,*****,*****, 5.0, 200, 60.0, 5.00,H,H,
AW,W,*****,*****,***** 25, 40.0, 2.00,H,H,
SA,W, 50, 12.0, 25.0, 50,100.0, 3.20,L,H,
AP,W,1,
SC,W,005A,
XP,W,000A,
SD,W,1,
SM,W,0,
XW,W,1,
XT,W,001E,
GJ,W,CH4 100 1%LEL,O2 40.0 0.1% ,H2S 100.0 0.5ppm ,CO
SJ,W,0,
SG,W,1,
MP,W,1,0006,
PG,W,0,
UJ,W,1,
BJ,W,0,
BK,W,001E,
BL,W,0,
BU,W,1E,1E,5A,1,
<
Windows (CRLF) Ln 5, Col 18 100%
```

14. Repeat for all channels until the line for the TWA alarms appears as shown below.



```
4 gas High PID SO2.seq - Notepad
File Edit Format View Help
AT,W,0,
A1,W, 10, 19.5, 5.0, 25,400.0, 2.00,L,H,
A2,W, 50, 23.5, 30.0, 50, 1000, 5.00,H,H,
AS,W,****,****, 5.0, 200, 60.0, 5.00,H,H,
AW,W,****,****,****,****,****,****,****,****,****,****,****,****,****,****,****,****,H,H,
SA,W, 50, 12.0, 25.0, 50,100.0, 3.20,L,H,
AP,W,1,
SC,W,005A,
XP,W,000A,
SD,W,1,
SM,W,0,
XW,W,1,
XT,W,001E,
GJ,W,CH4      100     1%LEL,O2      40.0  0.1%      ,H2S      100.0  0.5ppm ,CO
SJ,W,0,
SG,W,1,
MP,W,1,0006,
PG,W,0,
UJ,W,1,
BJ,W,0,
BK,W,001E,
BL,W,0,
BU,W,1E,1E,5A,1,
<
Windows (CRLF)    Ln 4, Col 31    100%
```

15. Save your changes using **File Save**.

16. In the GX-6000 Factory Config Program, click **Load Local File** and navigate to your saved .seq file that you just edited.

17. Click **Open**.

18. The TWA alarms should all appear as “---” in the lower part of the screen.

The screenshot shows the GX-6000 Setup Program interface. At the top, there are sections for Status (Serial Port and Connect), Read Commands (Instrument Information, Information Get & Save), Write Commands (Update, Update ID, Date/Time Set, Calibration), and Setting Commands (Power Off, Load local file, Store local file, Detail Settings, Exit, Restore Default Settings, Update as Default Settings).

The main display area shows a list of sensor readings under 'Download State':

```

ch0 PRES : 1492mV
ch1 OX AMP : 996mV
ch2 CO AMP : 498mV
ch3 H2S AMP : 499mV
ch4 OX TH : 1532mV
ch5 NC TH : 1500mV
ch6 SM1 TH : 1555mV
ch7 SM2 TH : 1548mV
ch12 BUL : 10mV
ch13 BUD : 4173mV
ch14 SM1 RS : 1174mV
ch15 SM2 RS : 1288mV
EX NC AMP : 1110mV
EX G X : 1015mV
EX G Y : 31mV
EX G Z : -50mV
PID list (10.6eV) is already set (V1.4N1)
PID list (10.0eV) is already set (V1.8.10eV)
GX-6000 Instrument Information Download Complete.
  
```

Below this is the 'GX-6000 Status' section with various input fields for Program Number, Serial No., SUM, PC Date/Time, GX-6000 Date/Time, Station ID, User ID, and Interval Trend Time.

At the bottom is a table of gas alarm settings:

Gas	Enable	Warning and Alarm point			TWA	Auto Cal.	Ch
		Warning	Alarm	STEL			
CH4(100mLEL)	<input checked="" type="checkbox"/>	10	50	---	---	50	1
O2(40.0%)	<input checked="" type="checkbox"/>	19.5	23.5	---	---	12.0	2
H2S(100.0ppm)	<input checked="" type="checkbox"/>	5.0	30.0	5.0	---	25.0	3
CO(500ppm)	<input checked="" type="checkbox"/>	25	50	200	---	50	4
VOC(6000ppm)	<input checked="" type="checkbox"/>	400.0	1000	60.0	---	100.0	5
SO2(99.90ppm)	<input checked="" type="checkbox"/>	2.00	5.00	5.00	---	3.20	6

19. Click **Update** and **Yes** to upload the changes to the GX-6000.