Interscan Corporation
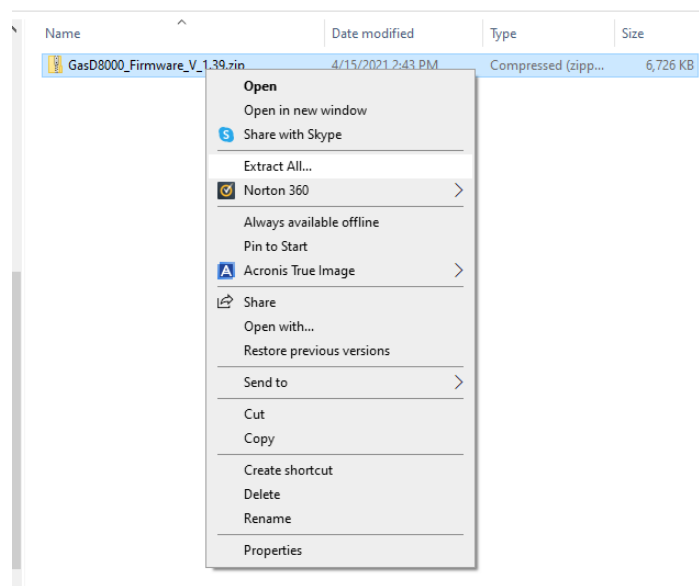
Field Modification Instructions

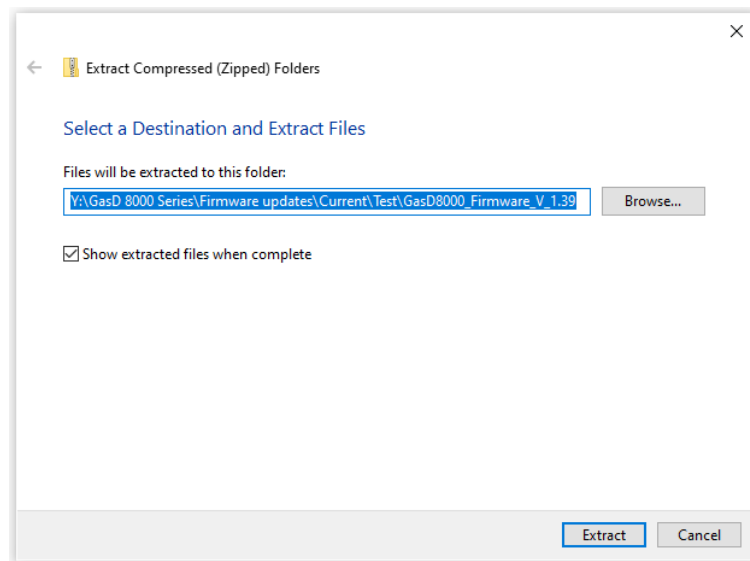## Firmware Upgrade – GasD 8000 series instrument

The following are the steps to upgrading the firmware of your GasD 8000 instrument to the most recent version.

1) Download the Zipped folder to your computer and extract the contents by right clicking on the zipped folder and selecting "Extract All" as shown below.

2) Choose the desired destination location in the "Files will be extracted to this folder:" field (the default will be in the same folder in which the zipped folder currently resides) as shown below and click "Extract". The unzipped folder and contents will be installed in the selected location.

Name	Date modified	Type	Size
GasD8000_Firmware_V_1.39	4/15/2021 3:00 PM	File folder	
GasD8000_Firmware_V_1.39.zip	4/15/2021 2:43 PM	Compressed (zipp...	6,726 KB

3) Double click on and open the newly unzipped folder shown above (version # shown may be different than the one you are installing).

4) Turn power off to the GasD 8000 instrument and remove the USB charging cable if connected.

5) Wait several seconds following powering down then hold down the **DOWN ARROW** button while pressing the green **POWER ON** button. This will open up *bootloader mode* that enables the downloading of the firmware. The screen may appear grainy and irregular as shown below. This is normal.
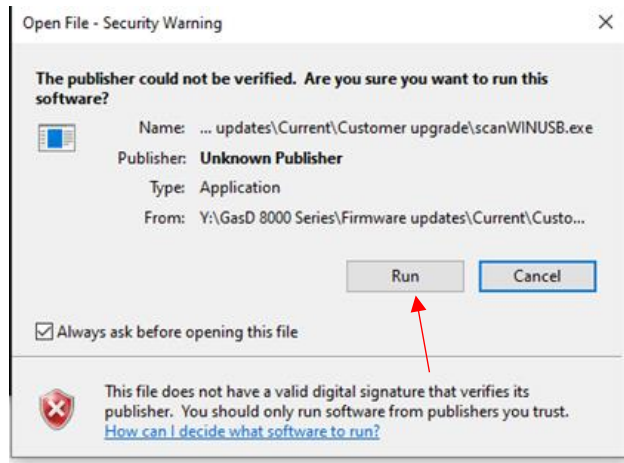

NOTE: Sometimes when manipulating multiple buttons on the keypad with one hand, an edge of a button may become stuck under the panel overlay. Should you notice this has happened, simply lift the stuck edge gently away from the panel to free it. Do this before proceeding.
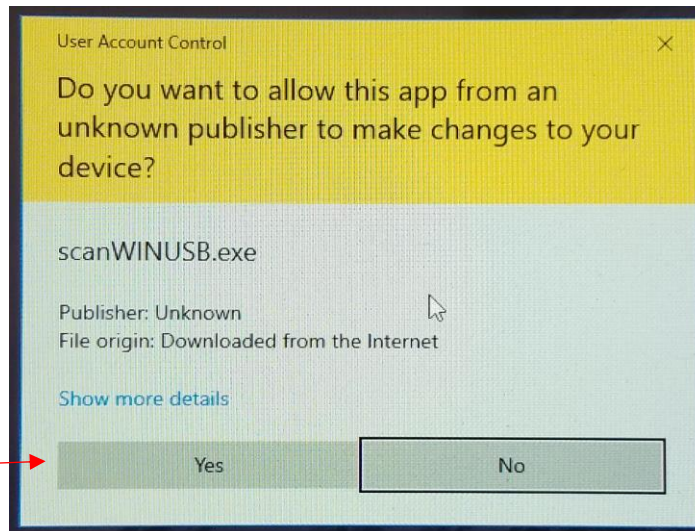
6) Once the unit is in bootloader mode, connect the USB charger cable first to a USB port on your computer, then connect to the USB port on the instrument.

7) Once the cable is connected, double click on the file titled "**Firmware_only_upgrade.bat**" as shown below.

Name	Date modified	Type	Size
dfu-util-0.9-win64	4/15/2021 3:00 PM	File folder	
Firmware_upgrade_only.bat	4/1/2021 9:05 AM	Windows Batch File	1 KB
howto.txt	4/1/2021 9:05 AM	Text Document	1 KB
Interscan.bin	4/1/2021 9:05 AM	BIN File	132 KB
scanWINUSB.exe	4/1/2021 9:05 AM	Application	10,159 KB

8) Click "Run" on the security warning screen that appears. (Skip this step if no such window appears).

Open File - Security Warning   ✕

The publisher could not be verified. Are you sure you want to run this software?

       Name: ... updates\Current\Customer upgrade\scanWINUSB.exe

    Publisher: **Unknown Publisher**

        Type: Application

       From: Y:\GasD 8000 Series\Firmware updates\Current\Custo...

                         [Run]   [Cancel]

☑ Always ask before opening this file

This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust.
How can I decide what software to run?

9) In most cases, you will now see the user account prompt window shown below. Click "Yes" on this screen to proceed.

10) At this point, the firmware download should begin or click "Run" if another security warning pops up. You can see the download progress on the lower line as shown below.

```
C:\WINDOWS\system32\cmd.exe                                                    —    □    ×

Y:\GasD 8000 Series\Firmware updates\Current\Test\GasD8000_Firmware_V_1.39>.\scanWINUSB.exe

Y:\GasD 8000 Series\Firmware updates\Current\Test\GasD8000_Firmware_V_1.39>.\dfu-util-0.9-win64\dfu-util-static.exe  -d
0483:df11 -s 0x800C000:leave -D .\Interscan.bin
dfu-util 0.9

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Copyright 2010-2016 Tormod Volden and Stefan Schmidt
This program is Free Software and has ABSOLUTELY NO WARRANTY
Please report bugs to http://sourceforge.net/p/dfu-util/tickets/

Invalid DFU suffix signature
A valid DFU suffix will be required in a future dfu-util release!!!
Opening DFU capable USB device...
ID 0483:df11
Run-time device DFU version 011a
Claiming USB DFU Interface...
Setting Alternate Setting #0 ...
Determining device status: state = dfuIDLE, status = 0
dfuIDLE, continuing
DFU mode device DFU version 011a
Device returned transfer size 512
DfuSe interface name: "Internal Flash   "
Downloading to address = 0x0800c000, size = 134184
Download          [=                          ]   6%          8192 bytes_
```

11) When the download is complete, the screen will prompt to "Press any key to continue" which will close the download window. The instrument will default to ON and the new firmware version should now be displayed in the lower left corner of the display. All the prior setup parameters should be maintained following the upgrade. If you notice any differences in the gas titles or range units, contact the INTERSCAN Service Dept. for assistance.

NOTE: Should the instrument not default to ON after the download is complete, press and hold the green **POWER ON** button until the unit powers up.