

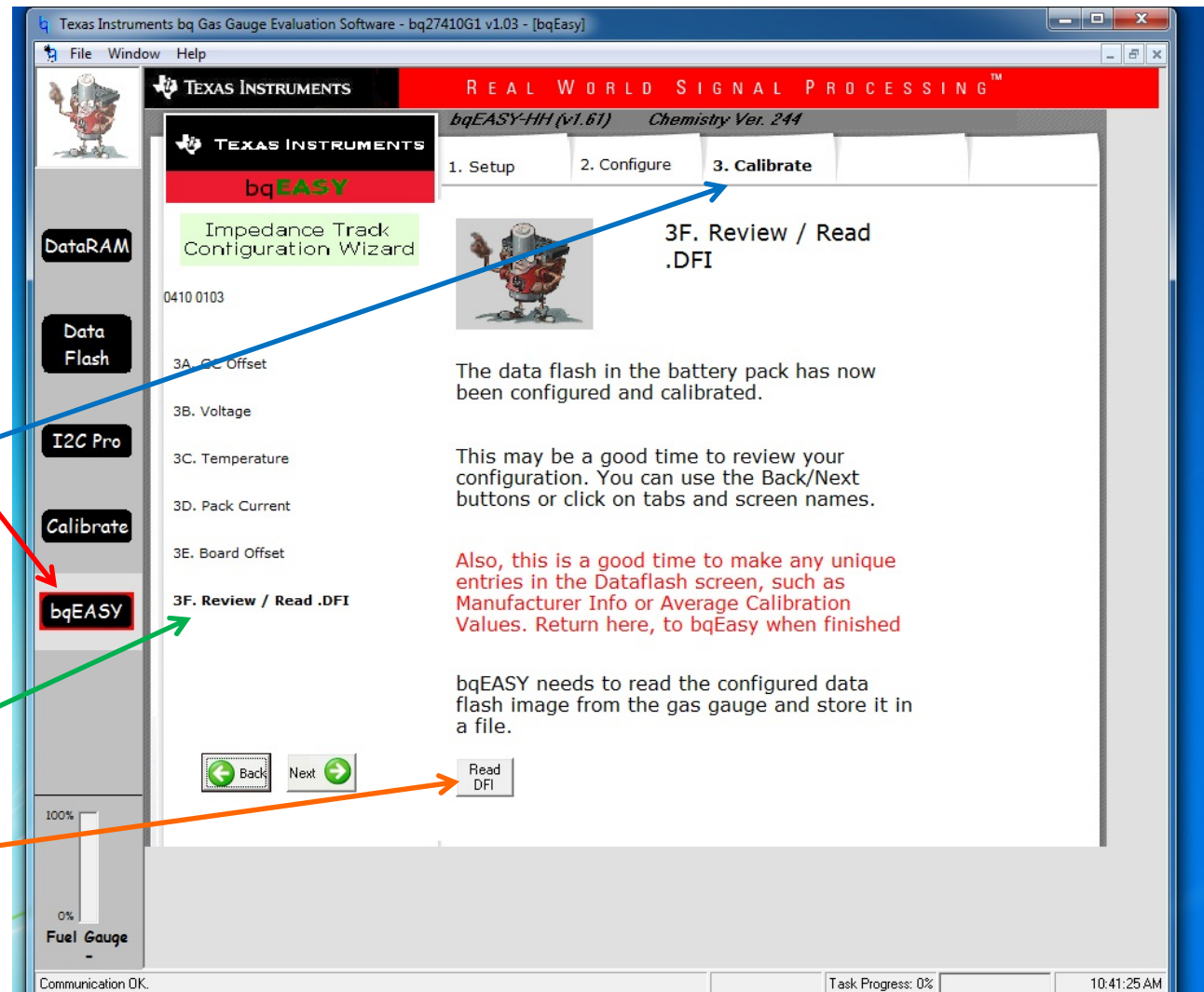
Read out *.dfi in EVSW

1. Go to "bqEASY" tab

2. Go to "3. Calibrate tab"

3. Go to step "3F. Review/Read .DFI"

4. Click the "READ DFI" button



The file should be output to : "C:\Program Files (x86)\Texas Instruments\bq Evaluation Software\Plugins\Projects" for Windows 7 (make sure you run EVSW as an admin) or "C:\Program Files\Texas Instruments\bq Evaluation Software\Plugins\Projects" for Windows XP

Read out *.senc in EVSW

Click on the I2C Pro button to go to the I2C Pro screen.

Control

Name	Value	Unit	Log	Scan
Control		hex	✓	✓
Control Status	0294	hex	✓	✓
At Rate	0	mA	✓	✓
At Rate Time To Empty	65535	min	✓	✓
Temperature	22.05	degC	✓	✓
Voltage	3358	mV	✓	✓
Flags	013C	hex	✓	✓
Nominal Avail. Capacity	8	MAH	✓	✓
Full Available Capacity	986	MAH	✓	✓
Remaining Capacity	1	MAH	✓	✓
Full Charge Capacity	979	MAH	✓	✓
Average Current	0	mA	✓	✓
Time To Empty	65535	min	✓	✓
Time To Full	65535	min	✓	✓
Standby Current	-10	mA	✓	✓

Standby Time To Empty

Name	Value	Unit	Log	Scan
Standby Time To Empty	48	min	✓	✓
MaxLoad Current	-500	mA	✓	✓
MaxLoad Time To Empty	0	min	✓	✓
Available Energy	3	mWH	✓	✓
Average Power	0	mW	✓	✓
TimeToEmpty Const Power	65535	min	✓	✓
SOH Status	1	num	✓	✓
State of Health	98	%	✓	✓
State of Charge	1	%	✓	✓
Operation Config	0973	hex	✓	✓
Application Status	00	hex	✓	✓
Normalized Impedance	288	mohm	✓	✓
Instantaneous Current	4	mA	✓	✓
Data Log Index	0	num	✓	✓
Data Log Buffer	32767	mA	✓	✓

Flags / Status Bits

Control Status - SCANNING

DLOGEN	FAS	SS	CSV	OCA	BCA	OCVMBDCOMP	OCVFAIL
INITCOMP	HIBERNATE	SNOOZE	SLEEP	LDMD	RUP_DIS	WOK	QEN

Flags - SCANNING

OTC	OTD	RSVD	RSVD	CHG_INH	XCHG	FC	CHG
RSVD	RSVD	OCV_GD	WAIT_ID	BAT_DET	SOC1	SYSDOWN	DSG

Operation Config - SCANNING

RESCAP	BATG_OVR	INT_BREM	PFC_CF61	PFC_CF60	IWAKE	RSNS1	RSNS0
INT_FOCV	IDSELEN	SLEEP	RMFCC	SOC1_POL	BATG_POL	BATL_POL	TEMPS

Application Status - SCANNING

RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	RSVD	LU_PROF
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Scan Off | Device:520, Ver:3.02

Communication OK. | SBS Task Progress: 100% | Task Completed. | 04:42:36 PM

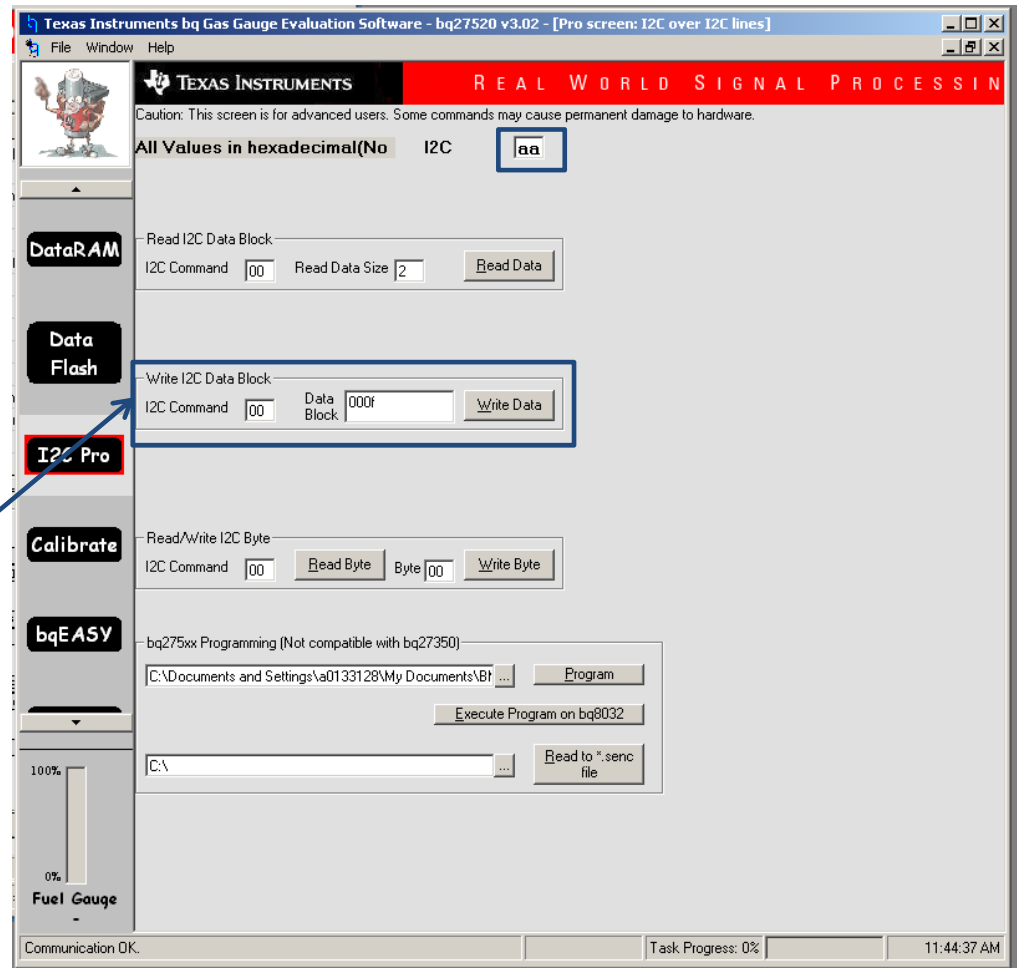
Read out *.senc in EVSW

The I2C address should be 0xAA. This is representative of the gauge address 0x55 with a write bit. However, EVSW takes care of the read/write bit, so regardless of read/write you can have the address set to 0xAA.

To enter ROM mode send command 0x0F00 to 0x00.

Please note that commands written and read in the I2C pro are in Little Endian format (LSB to MSB)

Please note that information in the Data Block does not automatically clear, so make sure that you backspace to clear out any previous data sent.

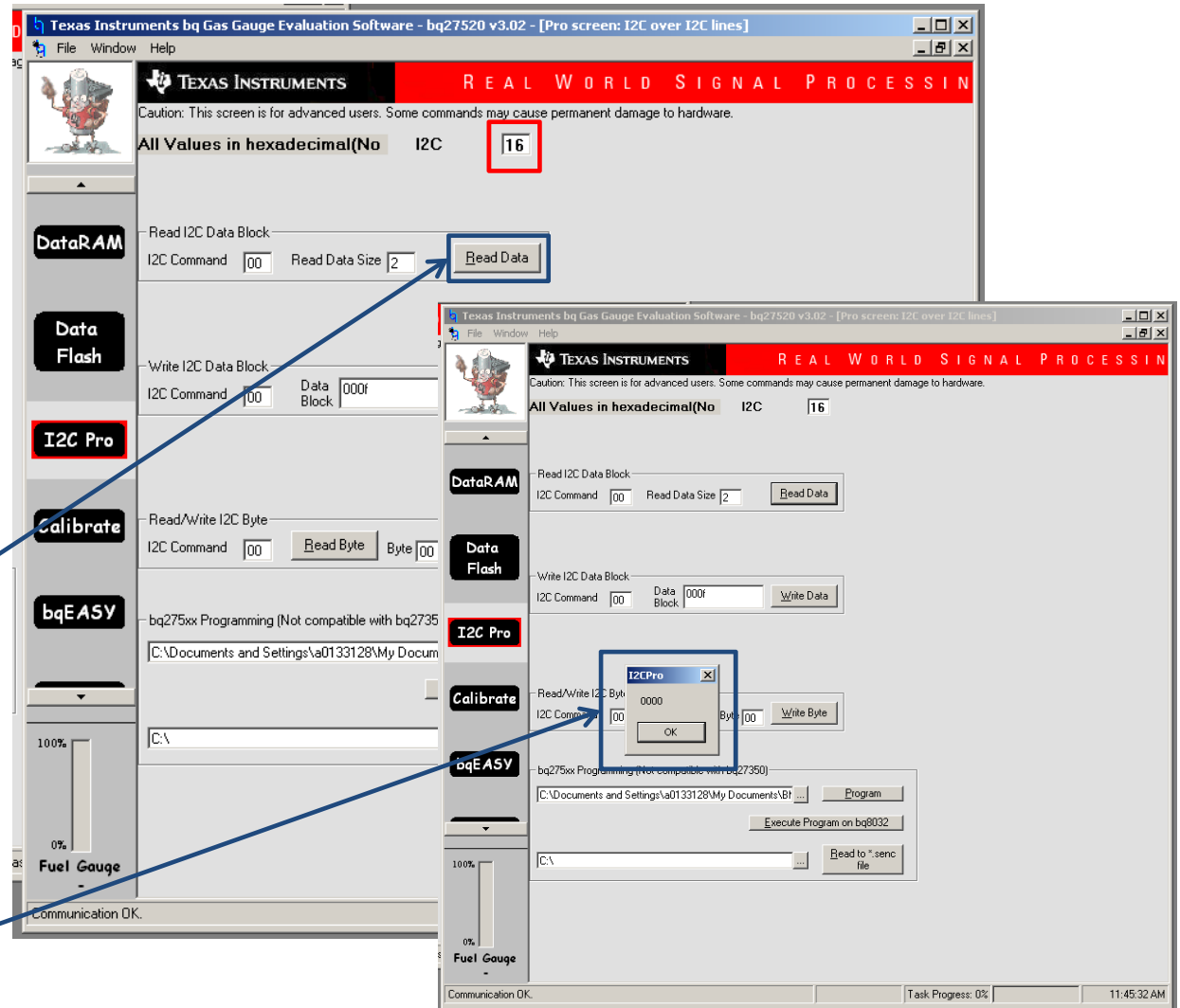


Read out *.senc in EVSW

Change the I2C address to 0x16. This is representative of the gauge address in ROM mode, 0x0B, with a write bit. However, EVSW takes care of the read/write bit, so regardless of read/write you can have the address set to 0x16.

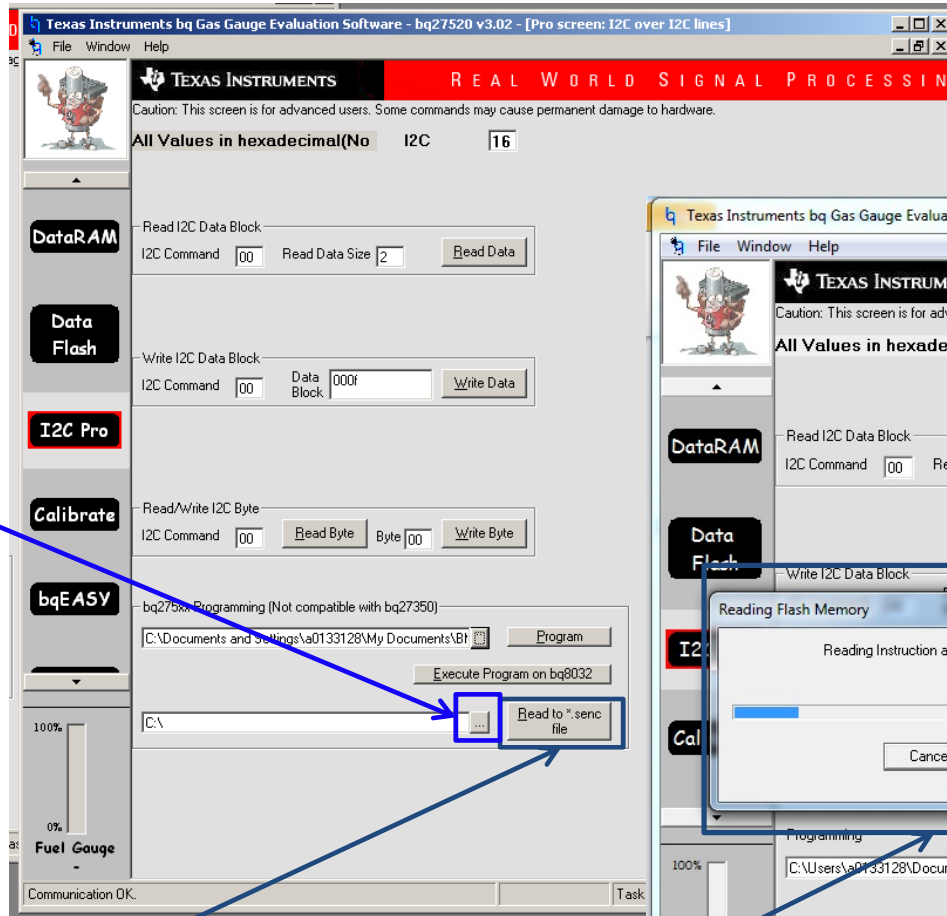
Read some data to verify the gauge is in ROM mode.

I2CPro should pop-up a small window with the data that was read.

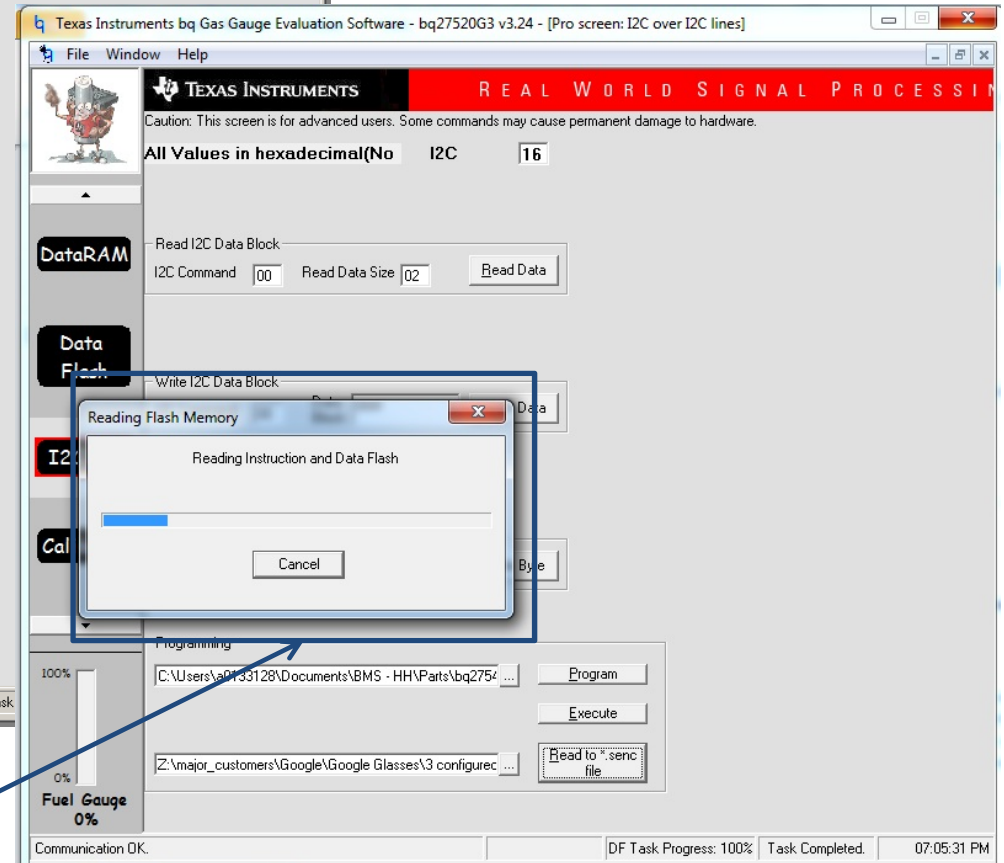


Read out *.senc in EVSWFW

Choose location of *.senc file to read from the gauge.

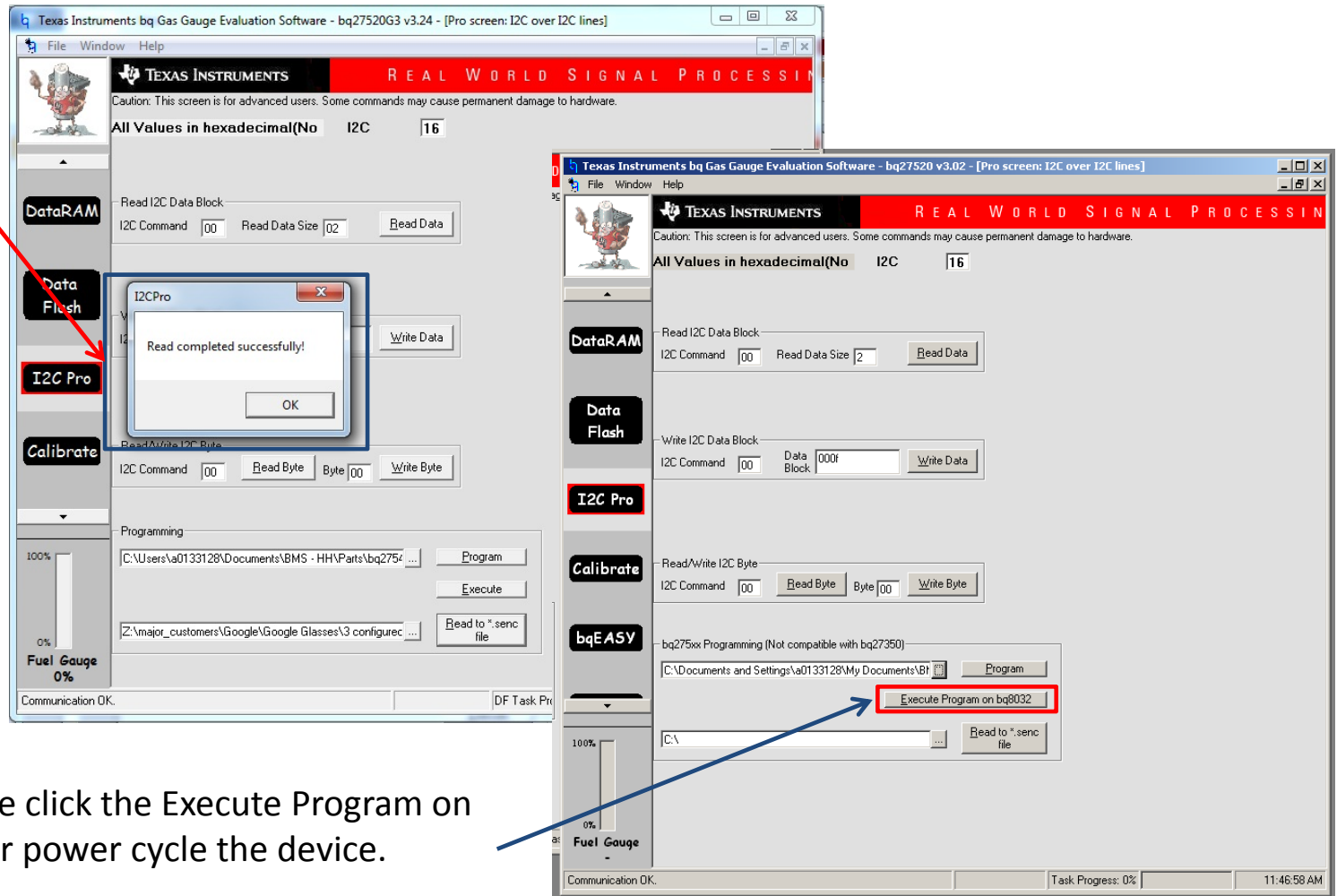


Click the Program button and EVSWFW will pop-up another window showing the reading progress.



Read out *.senc in EVSW

After the read out has completed, EVSW should pop-up a message window declaring the read successful.



To exit ROM mode click the Execute Program on bq8032 button, or power cycle the device.