

Bq20z gg and senc upload from bqEVSW

Reading the gg

- To upload the gg use the “Data Flash” Tab and “Read All” the DF values.
- Under “Files” menu select the “Export..” selection and save the DF values in a gg file

The screenshot shows the Texas Instruments bq Gas Gauge Evaluation Software interface. The title bar indicates the software version is v1.05 and the current view is 'Data Flash Constants'. The 'Data Flash' tab is selected in the top menu. The 'Read All' button is highlighted with a red circle. The interface displays a table of constants for the 1st Level Safety, 2nd Level Safety, and Gas Charge sections.

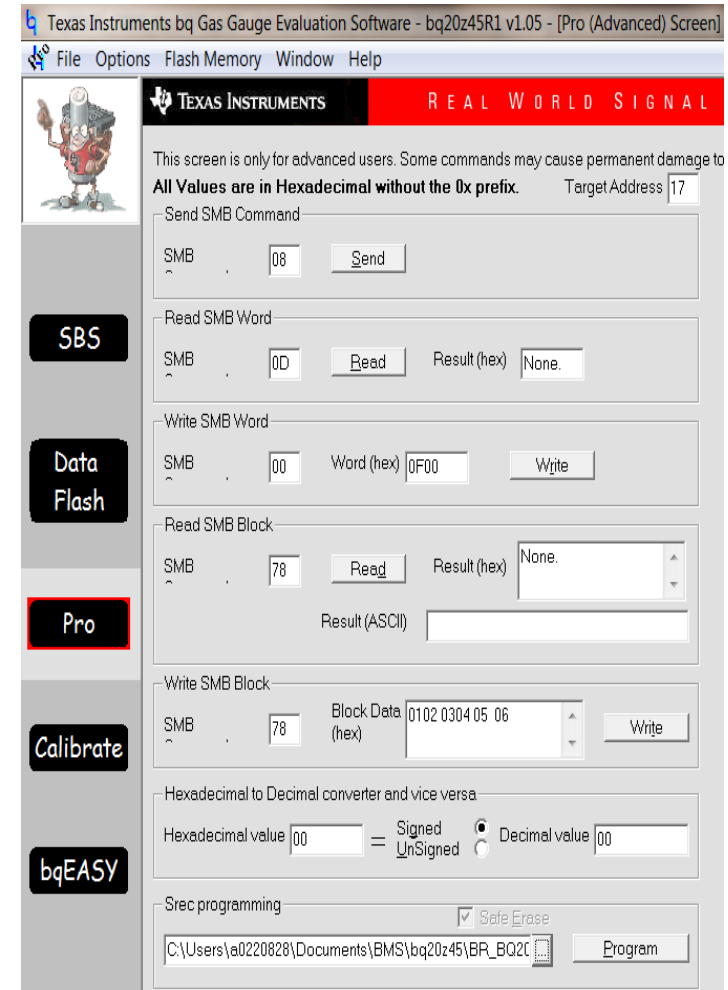
Name	Value	Unit
Voltage	-	-
LT COV Threshold	4300	mV
LT COV Recovery	4100	mV
ST COV Threshold	4500	mV
ST COV Recovery	4300	mV
HT COV Threshold	4200	mV
HT COV Recovery	4000	mV
CUV Threshold	2200	mV
CUV Time	2	s

Name	Value	Unit
Current	-	-
OC (1st Tier) Chg	6000	mA
OC (1st Tier) Dsg	6000	mA
OC (1st Tier) Dsg Time	2	s
Current Recovery Time	8	s
AFE OC Dsg	12	-
AFE OC Dsg Time	0F	-

Name
AFE SC Chg Cfg
AFE SC Dsg Cfg
Temperature
OT1 Chg Threshold
OT1 Chg Time
OT1 Chg Recovery
OT2 Chg Threshold
OT2 Chg Time

Upload the senc file

- Go to the the “Pro” screen of the software:
 - First use the “Write SMB Word” panel to write 0F00 to address 00 to put the device in ROM mode.
 - Next under “Flash Memory” menu, select “Read to file”.
 - Once the senc read is completed use the “Send SMB command” panel to send 08 to execute the program.
 - The golden senc file is now uploaded.



Upload senc

ents bq Gas Gauge Evaluation Software - bq20z45R1 V1.03 - [PRO (Advanced) Screen]

Flash Memory Window Help

TEXAS INSTRUMENTS REAL WORLD SIGNAL PRO

This screen is only for advanced users. Some commands may cause permanent damage to the hardware.

All Values are in Hexadecimal without the 0x prefix. Target Address

Send SMB Command

SMB

Read SMB Word

SMB Result (hex)

Write SMB Word

SMB Word (hex)

Read SMB Block

SMB Result (hex)

Result (ASCII)

Write SMB Block

SMB Block Data (hex)

Hexadecimal to Decimal converter and vice versa

Hexadecimal value = Signed Unsigned Decimal value

Srec programming Safe Erase