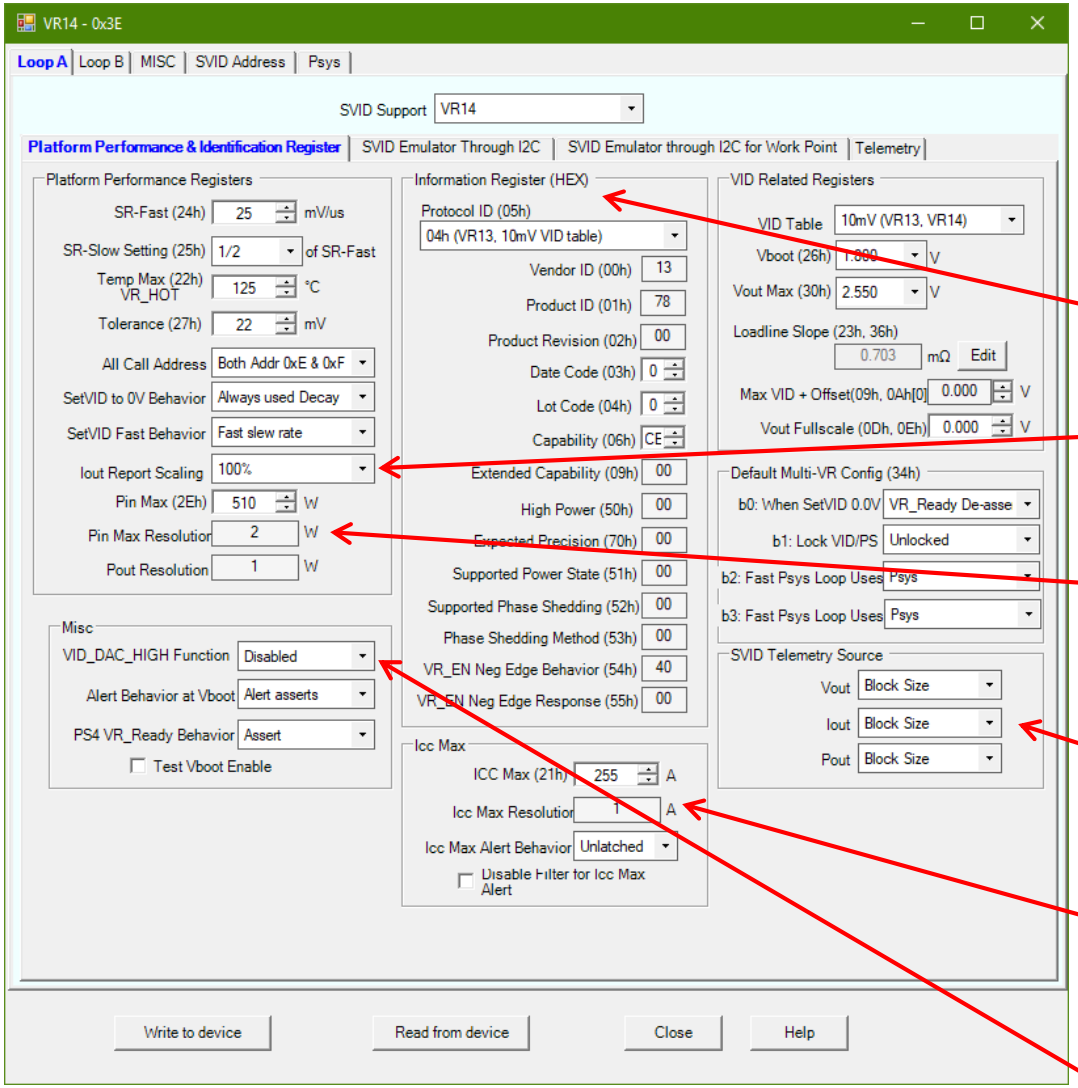
SVID XDPE142xx family (1 of 2)



The Intel SVID window is only available for devices that support SVID. Available settings depend on selected mode VR13, VR13HC, VR14...
For description of the different SVID commands see Intel SVID manual for SVID 1.91

Readout of SVID registers (xxh). Some can be changed others are Read only.

Iout report scaling. Only change the SVID reported current. Other telemetry is still 100%

Pin Max resolution will change automatically in VR14 mode when selecting higher/lower Pin values

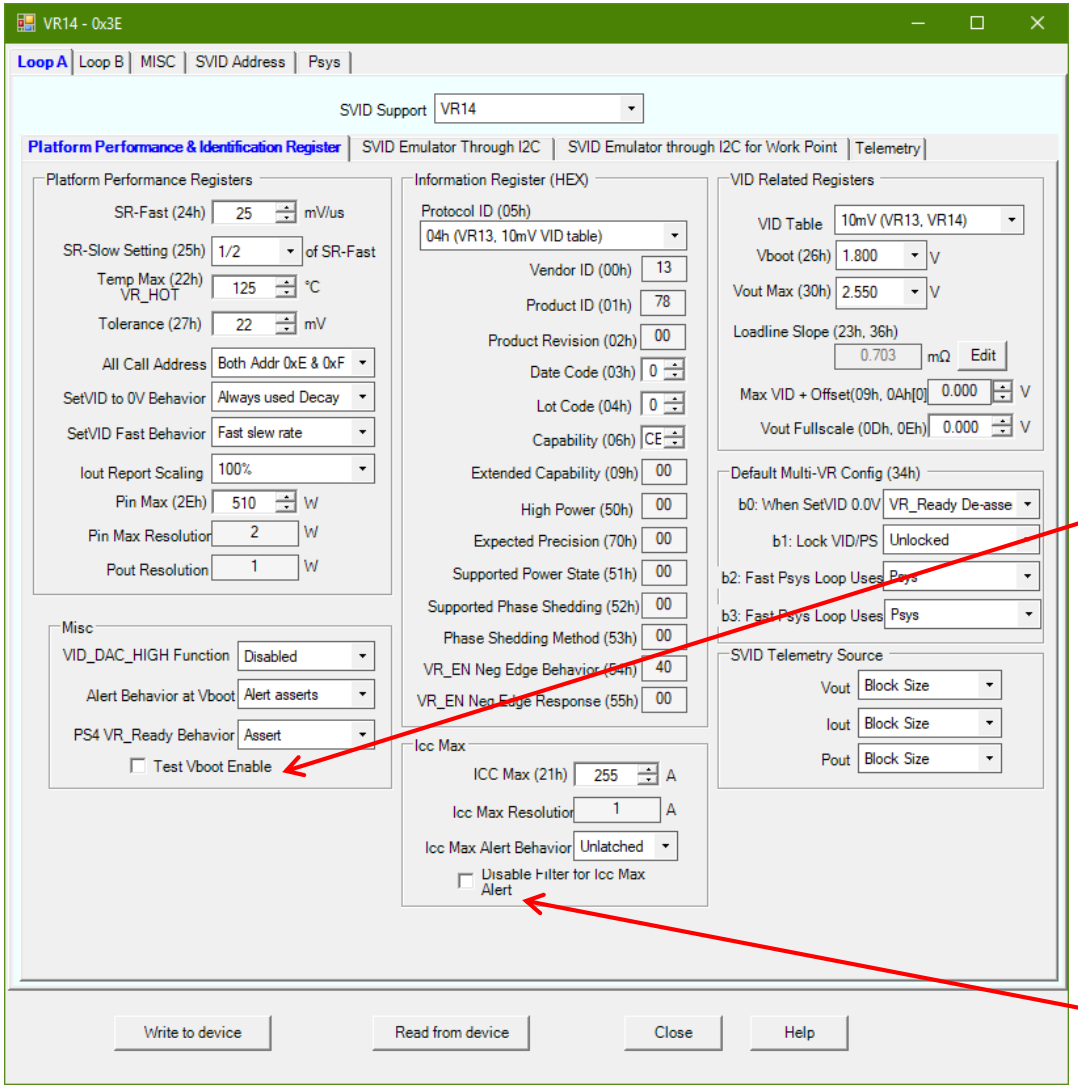
Telemetry source what kind of filter to use.

Slow filter like an analog lowpass filter or a block size that give average of all samples over one full switching period

Current resolution will change automatically in VR14 mode when selecting higher ICCmax than 255A

VID_DAC_HIGH a status indicator in SVID Status1 register if voltage is more than 30mV from the VID target. The status function can be enabled or disabled.

SVID XDPE142xx family (2 of 2)



The Intel SVID window is only available for devices that support SVID.

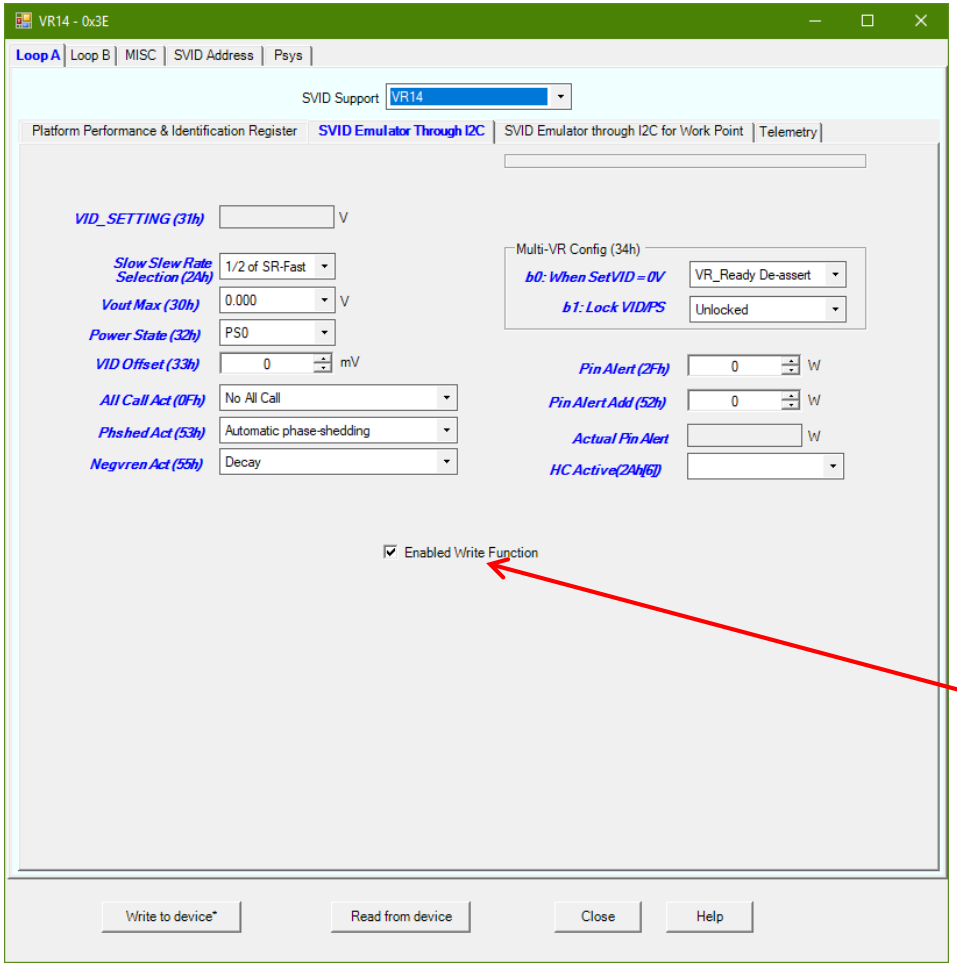
For description of the different SVID commands see Intel SVID manual for SVID 1.91

Test Vboot Enable It is used for testing purpose in production test. In a Vboot=0 application it is not easy to know if the 0Volt means there is an error or not. With function enabled and short xaddr pin to ground, output will go to 0.8V when VREN is asserted.

Using this function, the production can short xaddr pin to GND and measure Vout to determine if the board has any issues before they ship the board.

Disable Filter disables the lowpass filter and uses the instant sampled Icc values for the ICC alert. Makes reaction time fast but can give alerts due to noise in Icc measurments

SVID XDPE142xx family

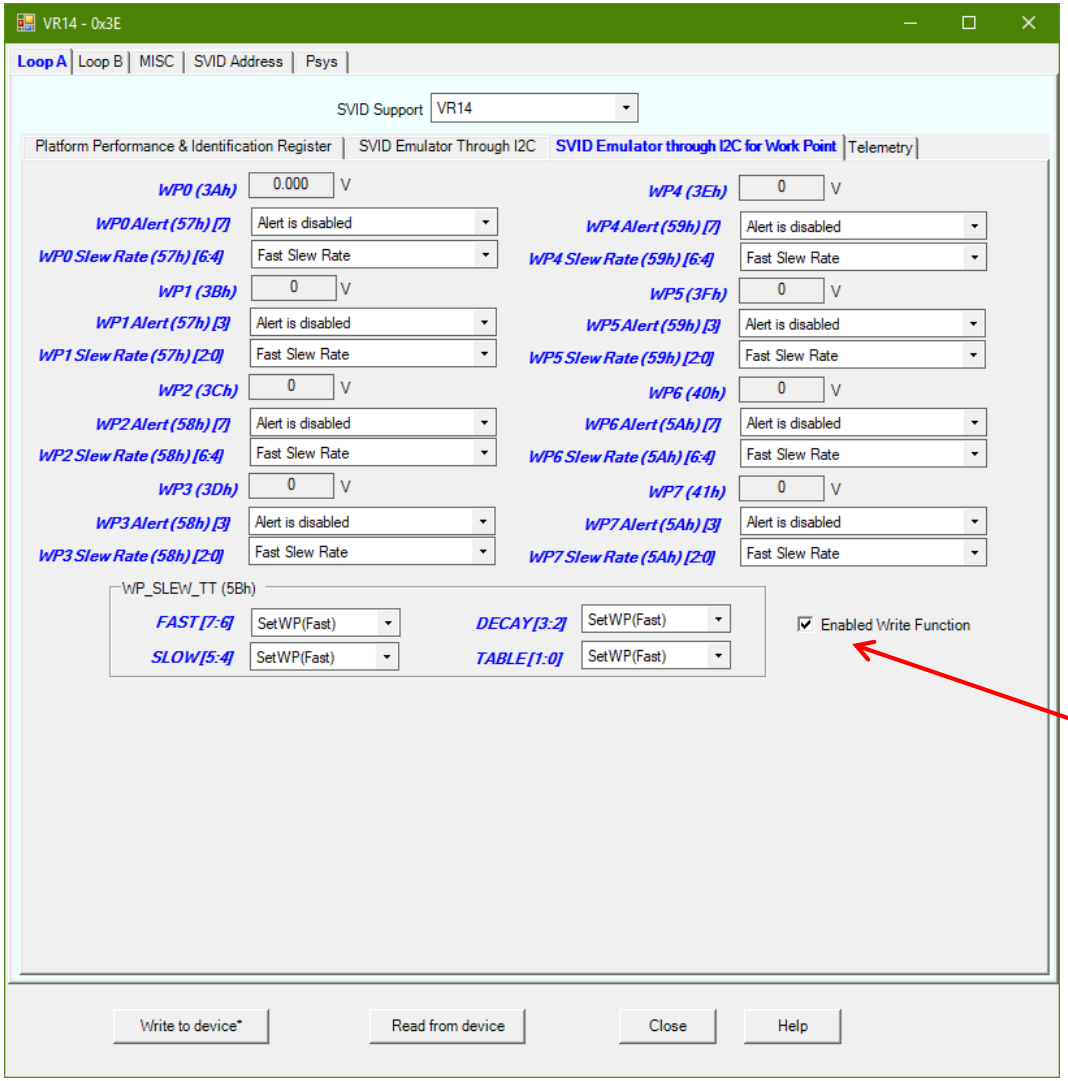


Emulates selected SVID commands using i2c bus to read and write them.

See SVID specification for what the settings do.

To change any value mark the **Enable Write function.**

SVID XDPE142xx family

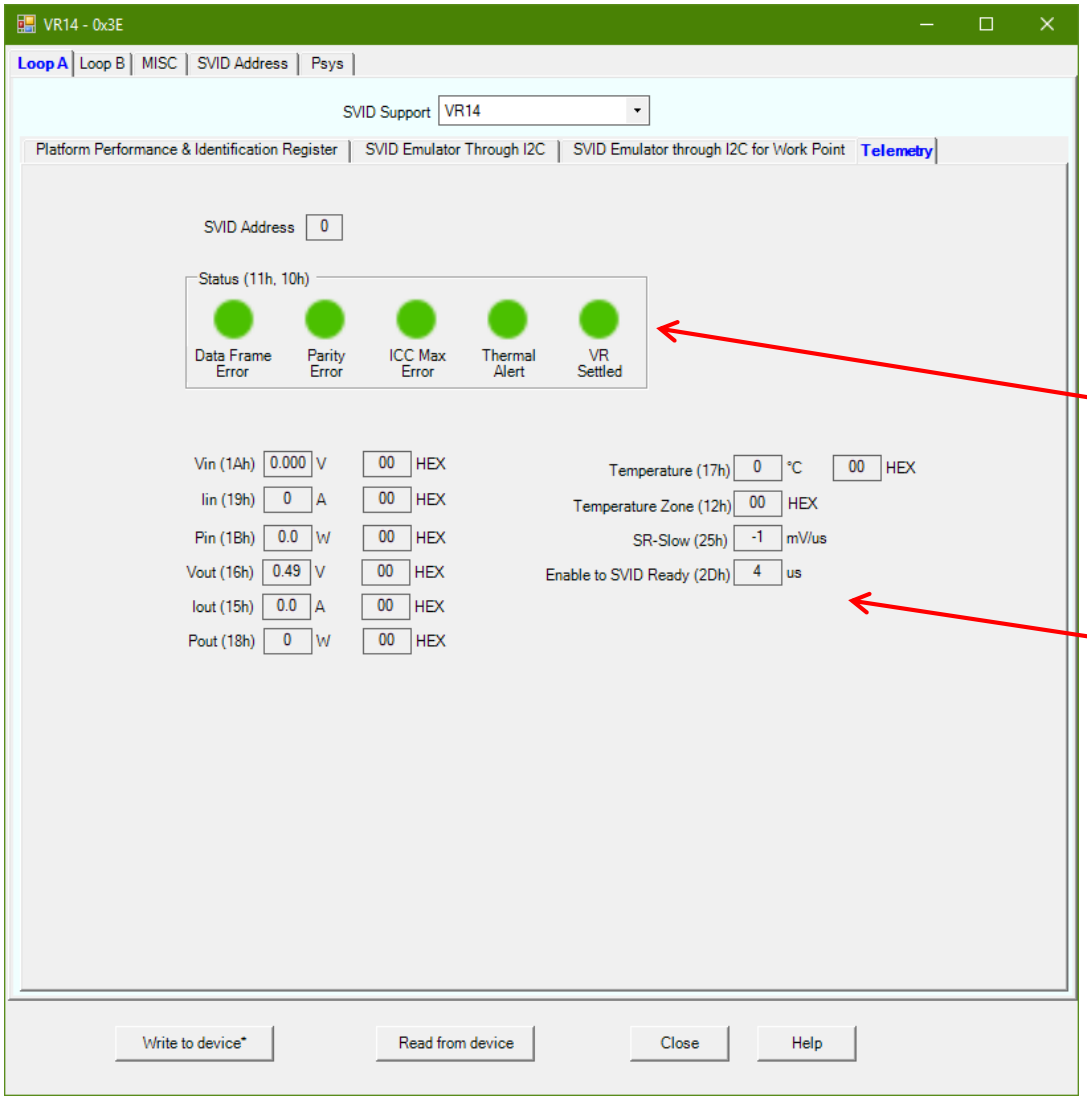


Settings for the different Workpoints.

See SVID specification for what the settings do.

To change any value mark the **Enable Write function.**

SVID XDPE142xx family



Readout for Status and other telemetry readings

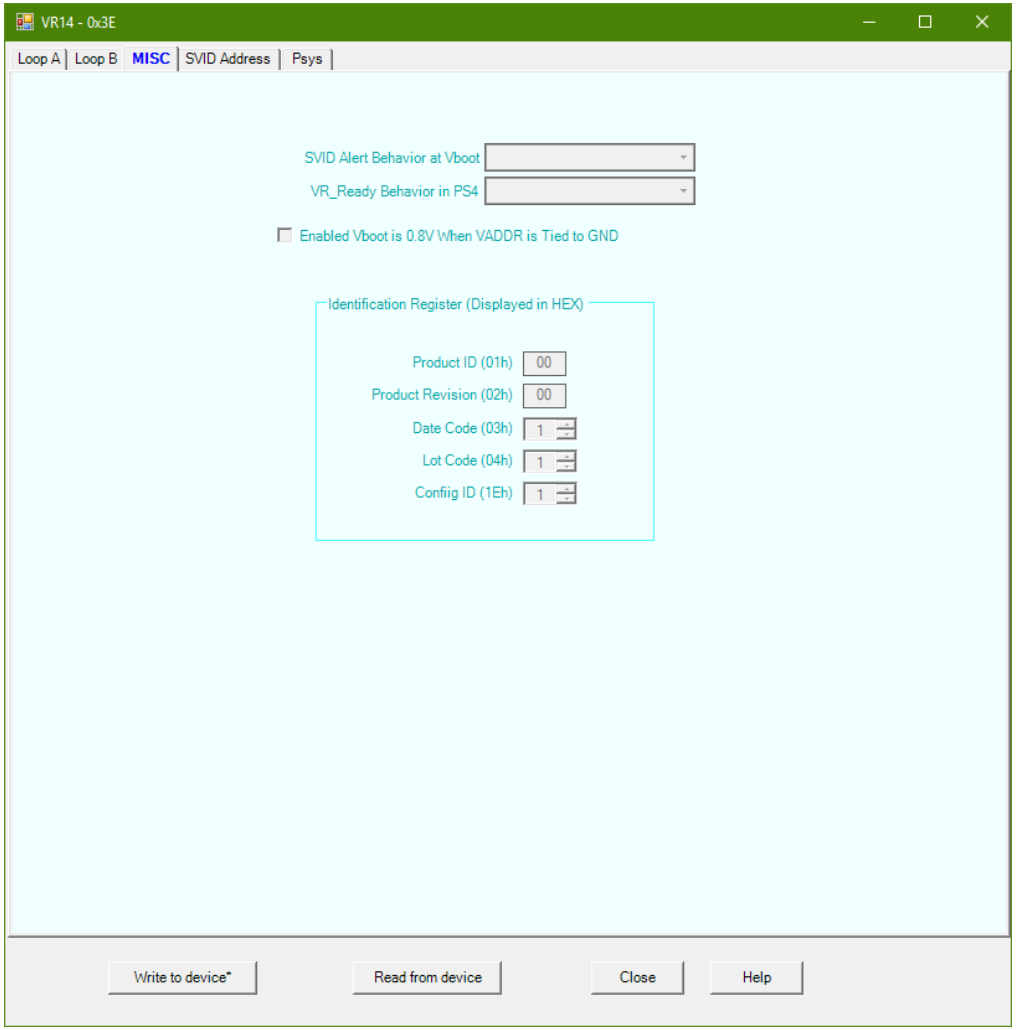
See SVID specification for what the settings do.

Green = there is not fault detected.

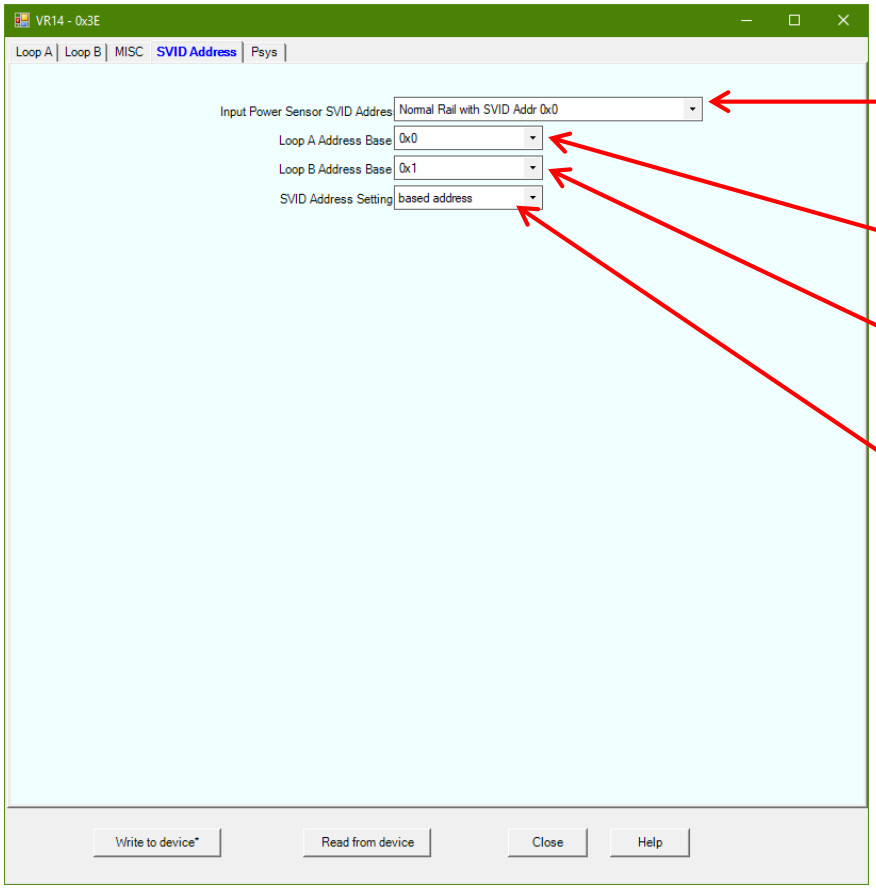
Red = fault detected

Readout of values from registers

SVID XDPE142xx family



SVID XDPE142xx family



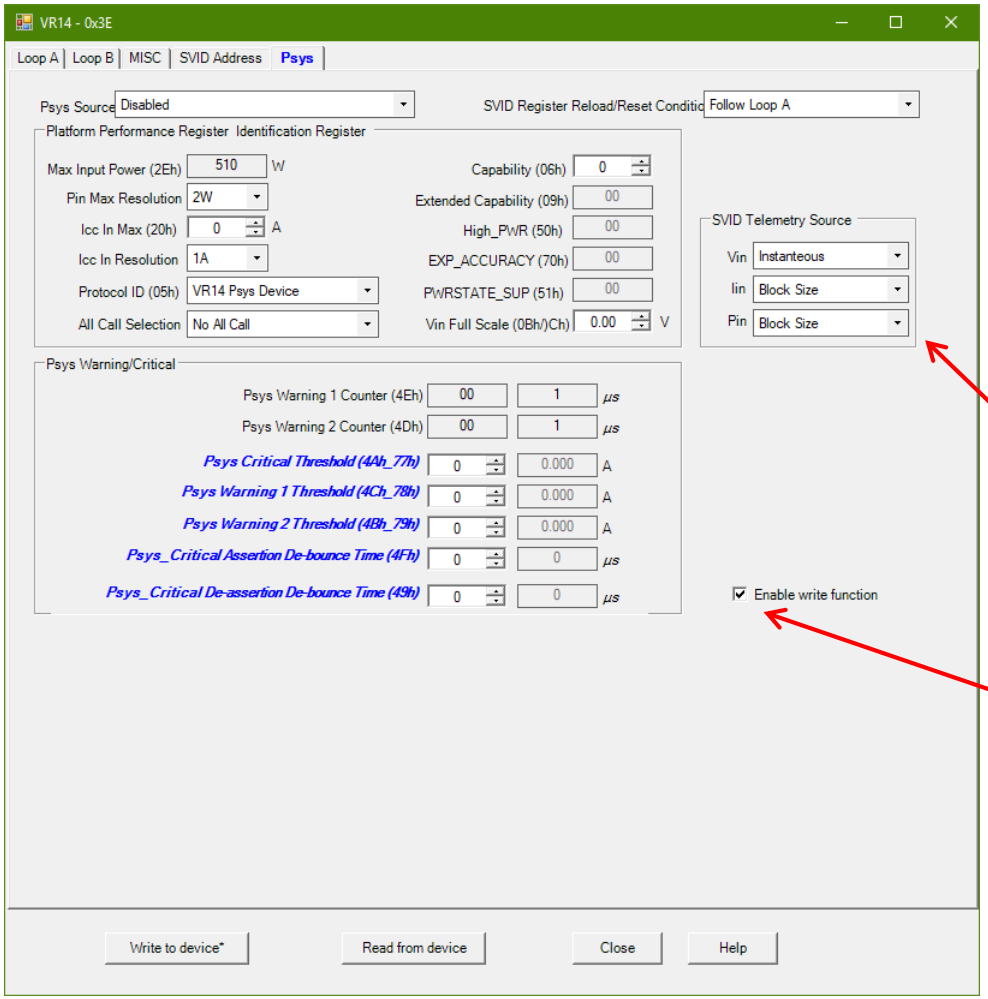
Input Power Sensor SVID address is the address for SVID commands relating to input power.

Loop A address Base is the address for SVID commands for loop A. typical set to 0x0

Loop B address Base is the address for SVID commands for loop A. typical set to 0x1

SVID address Setting select if the address should look at the external resistor that can set an offset to the Base address

SVID XDPE142xx family



Readout for PSYS settings

See SVID specification for what the settings do.

Telemetry source what kind of filter to use.

Vin

Instantenious or Slow filter. Instantenious is immediate latest sample while Slow is like a analog lowpass filter

Iin, Pin: Slow filter like an analog lowpass filter or a block size that give average of all samples over one switching period

To change any value mark the **Enable Write function.**