

OVIRS Housekeeping Conversions
31-May-18

Polynomial Conversion Equation: $ax^0 + bx^1 + cx^2 + dx^3...$

Channel Name	Unit	Coefficient A	Coefficient B	Coefficient C	Coefficient D	Coefficient E	Coefficient F	Coefficient G	
fpe_p5v_v_x		0.3557829	0.002255737						
fpe_p5v_i_sense_x	Amps	0.3368334	0.002278928						
fpe_p3p3v_digital_i_sense_x	Amps	0	0.002442						
fpe_p3p3v_analog_i_sense_x	Amps	0	0.002442						
fpe_p3p3v_digital_v_x	Volts	0	0.001221						
fpe_p3p3v_analog_v_x	Volts	0	0.001221						
fpe_p12v_v_x	Volts	0	0.003663				(
fpe_n12v_v_x	Volts	(0.00371803*n12Vdn) - (0.00743605*p12vdn)							
fpe_p3p3v_vref_v_x	Volts	0	0.001221						
fpe_p2p5v_v_x	Volts	0	0.001221						
vref_hfsc_monitor_x	Volts	0	0.001221						
adc_reserved_0b_x		0	0.001221						
adc_reserved_0c_x		0	0.001221						
adc_reserved_0d_x		0	0.001221						
adc_reserved_0e_x		0	0.001221						
adc_reserved_0f_x		0	0.001221						
cdh_p12v_v_x	Volts	2.671963	0.003169921						
cdh_agnd_0x11_x	Volts	0	0.001221001						
cdh_p5v_v_x	Volts	0.9636597	0.001143251						
cdh_p3p3v_v_x	Volts	0.671189	0.000796274						
adc_reserved_14_x	Volts	0.4818298	0.000571626						
cdh_p1p5v_v_x	Volts	0.4818298	0.000571626						
cdh_fpga_temp_x	Deg C	85.47075	-0.03131524	-3.3776E-05	6.12E-08	-4.02E-11	1.17E-14	-1.28E-18	
lvps_p5v_converter_temp_x	Deg C	85.47075	-0.03131524	-3.3776E-05	6.12E-08	-4.02E-11	1.17E-14	-1.28E-18	
lvps_p3p3v_converter_temp_x	Deg C	85.47075	-0.03131524	-3.3776E-05	6.12E-08	-4.02E-11	1.17E-14	-1.28E-18	
black_body_temp_x	Deg C	85.47075	-0.03131524	-3.3776E-05	6.12E-08	-4.02E-11	1.17E-14	-1.28E-18	
adc_reserved_1a_x	Deg C	0	0.001221						
filament_temp_x	Deg C	85.47075	-0.03131524	-3.3776E-05	6.12E-08	-4.02E-11	1.17E-14	-1.28E-18	
fpe_temp_x	Deg C	50.82	0.01955	-0.0000274					
fpe_asic_temp_x	Deg C	-12620	11.99	-0.002806					
adc_reserved_1e_x		0	0.001221						
adc_reserved_1f_x		0	0.001221						
fpa_moly_a_temp_x	Deg K	-205	0.02771055	1.82E-07	1.71E-11				
x2nd_stage_a_temp_x	Deg K	-206	0.0282296	1.86E-07	1.74E-11				
yolk_a_temp_x	Deg K	-205	0.02771055	1.82E-07	1.71E-11				
x1st_stage_a_temp_x	Deg K	-205	0.02902522	1.91E-07	1.79E-11				
foot_a_temp_x	Deg K	-205	0.02902522	1.91E-07	1.79E-11				
adc_reserved_25_x		0	0.001221						
adc_reserved_26_x		0	0.001221						
adc_reserved_27_x		0	0.001221						
filament_v_x	Volts	0	0.001221						
filament_i_x	Amps	0	0.000488401						
blackbody_v_x	Volts	0	0.001221001						
blackbody_i_x	Amps	0	0.00001561						
reserved_2c_x	Volts	0	0.001221001						
reserved_2d_x	Amps	6.94E-18	1.56288E-05						
virtual_ground_1_v_x	Volts	0	0.001221						
virtual_ground_2_v_x	Volts	0	0.001221						