

ShortName	ModeAndPID	Equation	Min Value	Max Value	Units	PID verified for long3	equation for long3 verified	notes
000_Airbag Hwire Duty	Airbag	0x220105	w	50	100			
000_Auxiliary Battery Voltage Aux Batt Volts	0x220101	(b*3)+1	11	14.8	V	220101b	B38%+1	
000_Available Charge Power Max REGEN	0x220101	((f*8)+g)/100	0	98	KW			
000_Available Discharge Power Max POWER	0x220101	((h*8)+j)/100	0	98	KW			
000_Battery Cell Voltage Dev	0x220105	v*50	0	0.5	V			
000_Battery Current	Batt Current	0x220101	((Signed(K)*256)+	-230	230			
000_Battery DC Voltage	Batt Volts	0x220101	((m*8)+n)/10	268.8	403.2			
000_Battery Fan Feedback	Batt Fan SPD	0x220101	ac	0	120			
000_Battery Fan Status	Batt Fan MOD	0x220101	ab	0	9			
000_Battery Heater 1 Temperature	Heater Temp1	0x220105	Signed(K)	0	30			
000_Battery Heater 2 Temperature	Heater Temp2	0x220105	Signed(T)	0	30			
000_Battery Inlet Temperature	Batt InletT	0x220101	Signed(W)	-40	80			
000_Battery Max Temperature	Batt MaxT	0x220101	Signed(O)	-40	80			
000_Battery Min Temperature	Batt MinT	0x220101	Signed(P)	-40	80			
000_Battery Module 01 Temperature	Batt Temp01	0x220101	Signed(Q)	-40	80			
000_Battery Module 02 Temperature	Batt Temp02	0x220101	Signed(R)	-40	80			
000_Battery Module 03 Temperature	Batt Temp03	0x220101	Signed(S)	-40	80			
000_Battery Module 04 Temperature	Batt Temp04	0x220101	Signed(T)	-40	80			
000_Battery Power	Energy Draw	0x220101	val[000_Battery C	-90	90			
000_BMS Ignition	BMS Ignit	0x220101	(g*2)	0	1			
000_BMS Main Relay	BMS Relay	0x220101	(i*0)	0	1			
000_Cumulative Charge Current	CCC	0x220101	((ae*24)+(af*16)+	0	1000000			
000_Cumulative Discharge Current	CDC	0x220101	((ac*24)+(ag*16)+	0	1000000			
000_Cumulative Energy Charge	CEC	0x220101	((am*24)+(an*16)+	0	1000000			
000_Cumulative Energy Discharge	CED	0x220101	((aq*24)+(ar*16)+	0	1000000			
000_Drive Motor Speed 1	Motor RPM 1	0x220101	(Signed(BB)*256)	-10100	10100			
000_Drive Motor Speed 2	Motor RPM 2	0x220101	(Signed(BD)*256)	-10100	10100			
000_HV Charging	Charging	0x220101	(j*7)	0	1			
000_Inverter Capacitor Voltage	BMS Capacitor	0x220101	((ac*8)+(ba)	0	500			
000_Isolation Resistance	Surge Resistor	0x220101	((bf*8)+(bg)	0	1000			
000_Maximum Cell Voltage	Max Cell V	0x220101	v*50	2.8	4.2			
000_Maximum Cell Voltage 1	Max Cell V No.	0x220101	y	0	98			
000_Maximum Deterioration	Max Det Cell No.	0x220105	ab	0	98			
000_Minimum Cell Voltage	Min Cell V	0x220101	v*50	2.8	4.2			
000_Minimum Cell Voltage 1	Min Cell V No.	0x220101	aa	0	98			
000_Minimum Deterioration	Min Det	0x220105	((ac*8)+(ad)/10	0	100			
000_Minimum Deterioration	Min Det Cell No.	0x220105	ae	0	98			
000_Normal Charge Port	J1772 Plug	0x220101	(i*5)	0	1			
000_Operating Time	OpTime	0x220101	((au*24)+(av*16)	0	1000000			
000_Rapid Charge Port	Chademo Plug	0x220101	(i*6)	0	1			
000_State of Charge BMS	SOC BMS	0x220101	af	0	100	220101b	B102	
000_State of Charge Display	SOC Display	0x220105	af/2	0	100	220105f	B412	multiply by 256 is same
000_State of Health	SOH	0x220105	((c*8)+(aa)/10	0	100	220105f	((B34*256)+(B35)/10	as *8 to shift left