Tesla Open Source drive unit control board CAN standard v3

Speed : 500kbps

Little Endian

Message id 0x135 :

Byte 0 and Byte 1:
Drive unit DC current
Unsigned 16 bit integer
0.1| per digit

Byte 2and Byte 3:
Drive unit DC Voltage
Unsigned 16 bit integer
0.1| per digit

Byte 4:
Drive unit 12V Voltage
Unsigned 8 bit integer
0.1| per digit

Byte 5 bit 0:
Overcurrent trip flag
0= no overcurrent
1= overcurrent event

Byte 6 and Byte 7:
Drive unit AC Current
Signed 16 bit integer
0.1| per digit

Message id 0x136 :

Byte 0:
Bits 0-3
Drive unit operation mode
0=Off
1=Run
2=Manual_run
3=Boost
4=Buck
5=Sine
6=2 Phase sine
Unsigned 4 bit nibble

Byte 1:

Bits 0-3
Drive unit gear
-1=REV
0=Neutral
1=FWD
Signed 4 bit nibble

Byte 2 and Byte 3:

Drive unit motor RPM
Unsigned 16 bit integer
1 bit / RPM

Byte 6:
Drive inverter heatsink temperature
Signed 8 bit integer
1| per digit
Range -127C to 127C

Byte 7:
Drive inverter motor temperature
Signed 8 bit integer
1| per digit
Range -127C to 127C