



TorqueTrak 10K RS-232 Digital Output Specification

The TorqueTrak 10K system includes a streaming digital output port on the rear panel of the RX10K Receiver. This output data is RS-232 type. A DB9 male-female cable is supplied for direct connection to a PC COM port.

Pinout for the DB9 connector on the RX10K

1		
2	TXD	Data output
3		
4		
5	GND	Ground or common connection
6		
7		
8		
9		

PC COM Port Settings

Bits per second	115200
Data bits	8
Parity	none
Stop bits	1
Flow control	none

Sample Protocol

The output sample rate is 2400 samples per second with 4 bytes per sample. The sample data is sent as a 16 bit signed integer (2's complement).

1	Start byte	ASCII 'SOH' code (hex 01)
2	Sample data low byte	
3	Sample data high byte	
4	Stop byte	ASCII 'CR' code (hex 0D)

$$Dout = Vin \cdot Asys \cdot 1000$$

Dout = streaming digital output sample data

Vin = TX10K transmitter voltage input (gage or sensor voltage)

Asys = TT10K System Gain factor

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