

Serial Interface HiTEC Servos HSR-8498HB, HSR5990TG
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Servos must have software revision 1.10 at minimum

Port Settings: 19200, N, 8, 2
 Serial Frame: 7 Byte

PC -> Servo

0x80	command	param1	param2	checksum	0x00	0x00
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Servo -> PC (only by Get Params)

0x80	command	param1	param2	checksum	return1	return2
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Checksum = (256 – ((0x80 + command + param1 + param2) mod 256)) mod 256

Commandlist

All values in hexadecimal!

Command	Param1	Param2	Description
Id (0-0x7F)	pos_high	pos_low	B_ID_W_MOV_MAX Set Servo Id to Position (600-2400, 1500 is middle)
0xE1	addr	00	B_Read_EEP addr: 0x29 - Get ID return1: id return2: 03
0xE2	addr	data	B_Write_EEP addr: 0x29 - Set ID data: id (please be careful with E2 command, it writes directly to EEPROM, to activate new id, restart the servo)
0xE3	addr	00	B_Read_DATA
0xE4	addr	data	B_Write_DATA
0xE5	0	0	B_Read_ADC_pos return1: pos_high return2: pos_low
0xE6	pos_high	pos_low	B_Write_CMD Set all Servos to Position (600-2400, 1500 is middle)
0xE7	0	0	B_Version Get Version return1: version (0x6E – actual version 1.10) return2: id

Command	Param1	Param2	Description
0xE8	0	0	B_Battery Get additional Params (voltage, current) return1: current return2: voltage
0xE9	Id (0-0x7F)	speed	B_ID_R_POS_PC Set Speed (1..100) for Servo id Reads actual Position return1: pos_high return2: pos_low
0xEA	0	Gain (1/2/3)	B_PARA_SET_PC Set Gain (1, 2, 3)
0xEB	0	1=on, 0=off	B_motor_go_stop Set motor on/off
0xEF	0	0	B_exit Exit from external control

No reliability for damage or another harm if you use this information