COMMUNICATION INTERFACE COMMANDS

These communication commands are for the DirecTemp™ USB Serial interface.

Definitions
Host: PC or device controlling and possibly providing power to the USB port.
Device: Sensor that is being controlled by the host. This is the USB plug.

Serial Port Details
The virtual serial port baud rate does not matter.
Set it to a value compatible with your serial port typically 9600 to 115200. The other settings should be 8, N, 1, None.

Character Information
Device deals with one character at a time.
Send from Host as ASCII text characters, ASCII decimal or ASCII hex values and it should work.
The device polls to pick up characters. Characters are buffered and will be parsed.
No carriage returns or line feeds are required when sending commands to request user data.

Command From Host "stream data from sensor"

Char	1	(no termination)
ASCII dec	49	
ASCII Hex	31	

Response from Device

Char	2	4	.	5	6	CR	LF
ASCII dec						13	10
text	24.56 (may have 3 dec places)						

Command From Host "stop data stream"

Char	x	(no termination)
ASCII dec	120	
ASCII Hex	78	

Response from Device

Char	CR	LF	>	CR	LF
ASCII dec	13	10	62	13	10
text	>				

Command From Host "get 1 data point from sensor"

Char	2	(no termination)
ASCII dec	50	
ASCII Hex	32	

Response from Device

Char	2	4	.	5	6	CR	LF
ASCII dec						13	10
text	24.56						

Command From Host "Get Sensor Information"

Char	3	(no termination)
ASCII dec	51	
ASCII Hex	33	

Response from Device

text	DIRECTEMP™ v.1.xx
text	www.thermistor.com
text	Probe Ver. 01.00
text	Board ver. 01.00
text	Ser. # 00000000
text	Recalibrate: xx/xx/xx
text	>