

USB Serial communication interface commands

Definitions

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