

DIRECTEMP USB HID COMMUNICATION API

USB VID:1DFD

USB PID:0002

Serial #: Each device is unique

USB-HID communication uses a 16 element array of bytes. Each byte is an ASCII number that represents a character.

Command: The 1st array element is the command. The pc will never send more than one valid command at a time. The second and all remaining elements in the command array can be anything. They are shown here as 0, but could be null.

Response: The device responds by echoing the command in the first element. Responses are terminated with CR + LF. The second and all remaining elements in the array are data if required. Extra elements are null.

Tip: Send a 17 byte array with the first element as 000.

Command

From PC get 1 data point

Char	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ASCII dec	50	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
ASCII Hex	32	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
Text	2															

Device response to host PC

ASCII Hex	32	32	34	2E	35	36	0D	0A	0	0	0	0	0	0	0	
ASCII dec	50	50	52	46	53	54	13	10	0	0	0	0	0	0	0	
Char	2	2	4	.	5	6	CR	LF								
Text	224.56 Data: 24.56 (degrees Celsius)															

Command

From PC Get Serial Number

Char	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ASCII dec	52	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
ASCII Hex	34	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
Text	4															

Reply 1

ASCII Hex	34	53	65	75	2E	20	23	20	0	0	0	0	0	0	0	
ASCII dec	52	83	101	114	46	32	35	32	0	0	0	0	0	0	0	
Char 4	4	S	e	r	.	space	#	space								
Text	4Ser.# Data: Ser.#															

Reply 2

ASCII Hex	34	53	65	75	2E	20	23	20	0	0	0	0	0	0	0	
ASCII dec	52	83	101	114	46	32	35	32	0	0	0	0	0	0	0	
Char	4	S	e	r	.	space	#	space								
Text	4Ser.# Data: Ser.#															

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Command

From PC Get Information

Char	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ASCII dec	51	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
ASCII Hex	32	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Text	3																		

Reply 1

ASCII Hex	33	44	49	52	45	43	54	45	4D	80	28	54	4D	29	0	0	0	0	0
ASCII dec	51	68	73	82	69	67	84	69	77	80	40	84	77	41	0	0	0	0	0
Char	3	D	I	R	E	C	T	E	M	P	(	T	M)					
Text 3	3DIRECTEMP(TM) Data: DIRECTEMP(TM)																		

Reply 2

ASCII Hex	33	20	55	53	42	20	76	2E	32	2E	31	33	0D	0A	0	0	0	0	0
ASCII dec	51	32	85	83	66	32	118	46	50	46	49	51	13	10	0	0	0	0	0
Char	3	space	U	S	B	space	v	.	space	2	.	1	3	CR	LF				
Text	3USB v.2.13 Data: USB v. 2.13																		

Reply 3

ASCII	33	77	77	77	2E	74	68	65	72	6D	69	73	74	6F	0	0	0	0	0
ASCII dec	51	119	119	119	46	116	104	101	114	109	105	115	116	111	0	0	0	0	0
Char	3	w	w	w	.	t	h	e	r	m	i	s	t	o					
Text	3www.thermisto Data: www.thermisto																		

Reply 4

ASCII Hex	33	72	2E	63	6F	6D	0D	0A	0	0	0	0	0	0	0	0	0	0	0
ASCII dec	51	114	46	99	111	109	13	10	0	0	0	0	0	0	0	0	0	0	0
Char	3	r	.	c	o	m	CR	LF											
Text	3r.com Data: r.com																		

Reply 5

ASCII Hex	33	28	43	29	20	32	30	30	38	20	51	54	49	0D	0A	0	0	0	0
ASCII dec	51	40	67	41	32	50	48	48	56	32	81	84	73	13	10	0	0	0	0
Char	3	(	C	)	space	2	0	0	8	space	Q	T	I	CR	LF				
Text	3© 2008 QTI Data: © 2008 QTI																		

Reply 6

ASCII Hex	33	42	6F	61	72	64	20	76	65	72	2E	20	0	0	0	0	0	0	0
ASCII dec	51	66	111	97	114	100	32	118	101	114	46	32	0	0	0	0	0	0	0
Char	3	B	o	a	r	d	space	v	e	r	.	space							
Text	3Board ver. Data: Board ver.																		

Reply 7

ASCII Hex	33	30	32	2E	30	30	0D	0A	0	0	0	0	0	0	0	0	0	0	0
ASCII dec	51	48	50	46	48	48	13	10	0	0	0	0	0	0	0	0	0	0	0
Char	3	0	2	.	0	0	CR	LF											
Text	302.00 Data: 02.00																		

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Reply 8

ASCII Hex	33	52	65	63	61	6C	69	62	72	61	74	65	3A	20	0	0	
ASCII dec	51	82	101	99	97	108	105	98	114	97	116	101	58	32	0	0	
Char	3	R	e	c	a	l	i	b	r	a	t	e	:	space			
Text	3Recalibrate:		Data: Recalibrate														

Reply 9

ASCII Hex	33	30	37	2F	30	33	2F	30	38	0D	0A	0	0	0	0	0	
ASCII dec	51	48	55	47	48	51	47	48	56	13	10	0	0	0	0	0	
Char	3	0	7	/	0	3	/	0	8	CR	LF						
Text	307/03/08		Data: 07/03/08														

Reply 10

ASCII Hex	33	53	65	72	2E	20	23	20	0	0	0	0	0	0	0	0	
ASCII dec	51	83	101	114	46	32	35	32	0	0	0	0	0	0	0	0	
Char	3	S	e	r	.	space	#	space									
Text	3Ser. #		Data: Ser. #														

Reply 11

ASCII Hex	33	30	30	30	30	30	38	30	30	0D	0A	0	0	0	0	0	
ASCII dec	51	48	48	48	48	48	56	0	0	13	10	0	0	0	0	0	
Char	3	1	2	3	4	5	6	7	8	CR	LF						
Text	312345678		Data: 12345678														

