

HOW TO SETUP PWM AND SOFTSTART ON HP8441 (Hardware must be PWM Version)

PWM on HP8441:

- 1) Available for High power channel 17 + 18
- 2) PWM frequency is fixed at 61Hz
Controlled by HW timer, which ensure stable and exact output according to setting.
- 3) PWM duty cycle is controlled by 1 byte CAN from message:
00h= 0% = Off
40h= 25%
80h= 50%
C0h= 75%
FFh= 100% = 100% On

CAN ID + byte number entered / selected on "Outputs" page.

- 4) Output channel also controlled by Input Trigger / Delay / Timer.
I.e. PWM generator is placed after processing 'standard' output channel behavior.

To generate PWM output, Input Trigger must be "On" and CAN message with PWM duty cycle must be present.

Input Pin Conn.	Input Trigger	Trig By	Delay [sec]	Timer[sec]	Max. [A]	Peak [sec]	Name Pin	Output Pin Conn.
(Con. B, Pin 14)	SWITCH 2	GND	0.0	CONT.	5.0	1.0	CHANNEL 1	1 (Con B Pin 1,2)
(Virtual input 1)	VIRTUAL 1	-	0.0	CONT.	20.0	1.0	CHANNEL 2	2 (Con B Pin 28)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 3	3 (Con B Pin 31)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 4	4 (Con B Pin 30)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 5	5 (Con B Pin 34)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 6	6 (Con B Pin 35)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 7	7 (Con B Pin 3,4)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 8	8 (Con B Pin 6)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 9	9 (Con B Pin 26,27)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 10	10 (Con B Pin 5)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 11	11 (Con B Pin 24,25)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 12	12 (Con B Pin 8)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 13	13 (Con B Pin 32,33)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 14	14 (Con B Pin 10)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 15	15 (Con B Pin 7)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 16	16 (Con B Pin 29)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 17	17 (Con B Pin 11)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 18	18 (Con B Pin 9)
	DISABLED	-	0.0	CONT.	20.0	1.0	CHANNEL 19	19 (Con A Pin 18)

Soft start
 Soft start
 Soft start
 PWM, CAN ID: 100 00
 PWM, CAN ID: ---

Soft start on HP8441:

- 1) Available for High power channel 11 + 12 + 13
Controlled by software, therefor more limited in 'performance.'
- 2) When output switched on (by input Trigger), is startup using this PWM sequence:
20% for 400ms (5ms On, 20ms Off = 40Hz PWM)
25% for 400ms (5ms On, 15ms Off = 50Hz PWM)
50% for 1000ms (10ms On, 10ms Off= 50Hz PWM)
75% for 750ms (15ms On, 5ms Off = 50Hz)