

Pin Configuration HP8442 HW Document Ver. D

Pin	Channel	INPUT +	Max. Current.			Screw
1	1		200A			M8

Connector #1 – Terminal A – 23 Pin - Ampseal 1-776200-1

Pin	Channel No.	Function		Max. Current	Current Measurement	Open wire Detect
1	Output 32			3A	NO – STATUS	YES
2	Output 33			3A	NO – STATUS	YES
3	Output 34			3A	NO – STATUS	YES
4	Output 35			3A	NO – STATUS	YES
5	Output 39			3A	NO – STATUS	YES
6	Output 38			3A	NO – STATUS	YES
7	Output 37			3A	NO – STATUS	YES
8	Output 36			3A	NO – STATUS	YES
9	GND					
10	Reset /Warning	Reset input and Warning Output	Put to GND to reset failure	1A		
11	CAN Low					
12	GND					
13	CAN High					
14	5V output	0.5A				
15	Input 12	Active H or L				
16	Output 24			3A	NO – STATUS	YES
17	Output 25			3A	NO – STATUS	YES
18	Output 26			3A	NO – STATUS	YES
19	Output 27			3A	NO – STATUS	YES
20	Output 31			3A	NO – STATUS	YES
21	Output 30			3A	NO – STATUS	YES
22	Output 29			3A	NO – STATUS	YES
23	Output 28			3A	NO – STATUS	YES

Connector #2 – Terminal B – 35 Pin - Ampseal 1-776230-1

Pin	Channel. No.	Function	Option	Output Current	PWM	Current Reading	Open Wire Detect
1	Output 1			40A *55A		2-55A	YES
2	Output 19			40A *55A		2-55A	YES
3	Output 7			40A *55A	YES	2-55A	YES
4	Output 20			40A *55A		2-55A	YES
5	Output 10			40A *55A		2-55A	YES
6	Output 8			40A *55A		2-55A	YES
7	Output 15		-or +Out	25A *35A	YES	0,2-55A	YES
8	Output 12		-or +Out	25A *35A	YES	0,2-55A	YES
9	Output 18		-or +Out	25A *35A	YES	0,2-35A	YES
10	Output 14		-or +Out	25A *35A	YES	0,2-35A	YES
11	Output 17		-or +Out	25A *35A		0,2-35A	YES
12	GND						
13	Input 1	Active H or L	Fast Digital selectable				
14	Input 2	Active H or L	Fast Digital selectable				
15	Input 3	Active H or L	Analog selectable				
16	Input 9	Active H or L	Analog selectable				
17	Input 5	Active H or L					
18	Input 6	Active H or L					
19	Input 7	Active H or L					
20	Input 8	Active H or L					
21	Input 4	Active H or L					
22	Input 10	Active H or L					
23	Input 11	Active H or L					
24	Output 11			40A * 55A		2-55A	YES
25	Output 21			40A * 55A		2-55A	YES
26	Output 9			40A * 55A		2-55A	YES
27	Output 22			40A * 55A		2-55A	YES
28	Output 2			40A * 55A		2-55A	YES
29	Output 16			40A * 55A		2-55A	YES
30	Output 4		-or +Out	25A * 35A		0,2-35A	YES
31	Output 3		-or +Out	25A * 35A	YES	0,2-35A	YES
32	Output 13		-or +Out	25A * 35A	YES	0,2-35A	YES
33	Output 23		-or +Out	25A * 35A		0,2-35A	YES
34	Output 5		-or +Out	25A * 35A		0,2-35A	YES
35	Output 6		-or +Out	25A * 35A		0,2-35A	YES

*= Load for a shorter period (limited by Pin)

Its Possible to Link Outputs:

How it works:

- 1) Master output fully control Slave output.
- 2) Sum of load current registered for Master output.
- 3) Overload / diagnostics controlled /registered to Master output.
- 4) For same dual outputs, PWM and Push-pull configuration also possible.

Up to 7 outputs can be linked:

- 1) Output 1 + 19 : Both 40A outputs
- 2) Output 3 + 2 : Mix of 40A + 25A outputs / PWM available
- 3) Output 7 + 20 : Both 40A outputs
- 4) Output 12 + 18 : Both 25A outputs / PWM available
Push-pull configuration available.
- 5) Output 13 + 23 : Both 25A outputs / PWM available.
Push-pull configuration available.
- 6) Output 14 + 17 : Both 25A outputs / PWM available.
Push-pull configuration available.
- 7) Output 15 + 4 : Both 25A outputs / PWM available.
Push-pull configuration available.

Linked output is selected in "High power" page by selecting "Link with xx" as input for 'slave' output:

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HP8442 PowerBox, version: 1.5.0

File Connection Tools HP Help

Overview | General | CAN Inputs | Virtual Inputs | CAN Export | High power | Low power | PWM | Flash / Timer / Wiper / Sequence | Socket info | Error / Info log

Signal info	Input signal	Invert	Kill #1	Kill #2	Low batt. Off	Push Pull	Open wire	Min. [A] / [Sec]	Max. [A] / [Sec]	Output name	Max. load	Output Pin Conn.
(Con. B, Pin 13)	Switch 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 1	1 40A	(Con B, Pin 1)
(Linked output)	Link with 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 2	2 40A	(Con B, Pin 28)
(Con. B, Pin 14)	Switch 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 3	3 25A	(Con B, Pin 31)
(Linked output)	Link with 15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 4	4 25A	(Con B, Pin 30)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 5	5 25A	(Con B, Pin 34)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 6	6 25A	(Con B, Pin 35)
(Con. B, Pin 15)	Switch 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 7	7 40A	(Con B, Pin 3)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 8	8 40A	(Con B, Pin 6)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 9	9 40A	(Con B, Pin 26)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 10	10 40A	(Con B, Pin 5)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 11	11 40A	(Con B, Pin 24)
(PWM generator)	Out 12 PWM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 12	12 25A	(Con B, Pin 8)
(Con. B, Pin 17)	Switch 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 13	13 25A	(Con B, Pin 32)
(Con. B, Pin 18)	Switch 6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 14	14 25A	(Con B, Pin 10)
(Con. B, Pin 19)	Switch 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 15	15 25A	(Con B, Pin 7)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 16	16 40A	(Con B, Pin 29)
(Linked output)	Link with 14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 17	17 25A	(Con B, Pin 11)
(Linked output)	Link with 12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 18	18 25A	(Con B, Pin 9)
(Linked output)	Link with 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 19	19 40A	(Con B, Pin 2)
(Linked output)	Link with 7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 20	20 40A	(Con B, Pin 4)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 21	21 40A	(Con B, Pin 25)
	Off	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 22	22 40A	(Con B, Pin 27)
(Linked output)	Link with 13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0,0 0,0	0,0 0,0	Output 23	23 25A	(Con B, Pin 32)

COM5 open HP8442 ready Read configuration completed with success (0,8 sec)