

	Comparison of AdInstruments PowerLab models				
	PowerLab for research			PowerLab for education	
	PowerLab C	4/26	2/26	26T	15T
Included software	LabChart	LabChart	LabChart	None, LabChart, LabStation or Lt purchased separately	None, LabChart, LabStation or Lt purchased separately
Data communication	USB 2.0				
Trigger Input	Yes				No
Analog input channels	Up to 32	4	2	4	2
Single ended inputs	Up to 16	4	2	4	2
Differential inputs	Up to 32	4	2	4	2
Input voltage range	± 2 mV to ± 10 V	± 20 mV to ± 10 V			
Data resolution	16 bit				
Min sampling rate	1 S/10 min				
Max sampling rate per channel	100 kS/s	100 kS/s	100 kS/s	100 kS/s	100 kS/s
Input crosstalk	>90dB	> 90 dB	> 90 dB	> 90 dB	> 90 dB
Frequency response	-3dB (24kHz, all ranges)	- 3 dB (37 kHz, 10 V)	- 3 dB (37 kHz, 10 V)	- 3 dB (37 kHz, 10 V)	- 3 dB (37 kHz, 10 V)

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CMRR	>85dB (110Hz)	>95 dB @ 100 Hz, 20-100 mV	>95 dB @ 100 Hz, 20-100 mV	>95 dB @ 100 Hz, 20-100 mV	>95 dB @ 100 Hz, 20-100 mV
Input impedance	1 M Ω	1 M Ω @ 150 pF	1 M Ω @ 150 pF	1 M Ω @ 150-200 pF	1 M Ω @ 150 pF
Output amplifier	No	Yes			
Output channels	0	1	1	1	1
Output resolution	-	16 bit			
Output voltage ranges	-	± 200 mV to ± 10 V	± 200 mV to ± 10 V	± 200 mV to ± 10 V	± 200 mV to ± 10 V
Digital output channels	-	0	0	8	0
Digital input channels	-	0	0	8	0
Built-in bio-amplifier	No			Yes	
Safety rating	IEC60601-1				
Bio-amplifier channels	-	-	-	2	2
Amplification range	-	-	-	± 200 μ V to ± 20 mV	± 200 μ V to ± 20 mV
Bio-amplifier CMRR	-	-	-	110 dB	110 dB

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Isolated stimulator	-	No	No	Yes	Yes
Isolated stimulator current range	-	-	-	0-20mA	0-20mA
Pulse duration	-	-	-	50 – 200 μ s	50 – 200 μ s
Pulse rate	-	-	-	Software selectable	Software selectable