BaSyTec CTS

Battery Test System

1-6V or +/-6V

up to 5A (20A)

up to 200nA current accuracy

optional reference electrode input

The BaSyTec CTS is the reference when testing small cells from material probes in 3 electrode arrangement up to mid size cells up to 20A.

Of course also our CTS is controlled by our **powerful and comfortable BaSyTest Software**.

The 4 automatic dynamic switching current ranges (switching without interruption) (plus paralleling) result in a relative accuracy of at least 0.33% within the whole range from **60µA to 20A**.

BaSyTec Battery Test Systems

Our Systems are modular, flexible and user friendly

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Battery Test System

Technical data:

	CTS Standard	CTS LAB	CTS LAB XL
Channels per unit (max.)	32		20
Voltage range	0-6V	+/-6V	
4-wire measurement	yes		
Min. discharge voltage	200mV or 0.2Ω*current (whichever is greater)	-6V	
Current ranges (charge + discharge)	**5A**/300mA/ 15mA/1mA	**3A**/250mA/ 15mA/ 1mA	**5A**/300mA/ 15mA/1mA
Current accuracy	1mA/50µA/ 2.5µA/0.2µA	0.5mA/50µA/ 2.5µA/0.2µA	1mA/50µA/ 2.5µA/0.2µA
Voltage accuracy	1mV		
Resolution	16Bit / 1us		
Parallel operation	Yes, up to 4 channels		
Add. inputs per channel	NTC temperature (for Epcos B57861S0502) optional reference voltage (+/-6V, 1mV accuracy, leackage < 50nA, 200ms samplerate)		
Digital-IO	Optional, TTL-like, 3 per channel, not isolated		
Sampling rate Output change rate	Peak 0.5ms Min. 10ms	but not more than 1kHz continually per system	
Current rise time	< 50µs		
3-Electrode configurations	limited	yes	yes
Control mode	Current, voltage, power, resistance and combinations		
Other methods	Cyclic voltammetry, GITT, …		
Software	BaSyTest		
Interface	Ethernet		
Battery connectors	D-SUB 9-pin Holders for cylindric cells available		
Size per unit (max.)	19” system 6HE units, 450*280*550mm		
Weight per unit (max.)	28kg (32 channels)		
Noise	< 55dB(A)		
Input power / voltage range	< 1700W / 110-264VAC / 47-63Hz		
Max. input current per unit	< 16A @ 110V, < 8A @ 220V		

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BaSyTec Battery Test Systems

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