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Cadex C7000 Series Battery Analyzers

Fast, Simple, Efficient and Innovative

Gone are the days when a battery analyzer did nothing more than cycle a battery to eliminate memory. Much has changed with modern batteries. So have the service requirements for battery analyzers.

The Cadex C7000 Series battery analyzers offer 17 programs to meet all needs of the modern battery. Fast and simple service is essential. *QuickTest*™ measures the battery state-of-health in just three minutes. *Boost* activates batteries that appear dead because of over-discharge. *Prime* prepares new or stored batteries for field use. *Auto* restores batteries affected by memory with the proprietary *Recondition* cycle.

Product Specifications

Battery Analyzers

		C7200	C7400	C7400ER
Independent stations		2	4	4
Battery voltage range		1.2 to 15V	1.2 to 15V	1.2 to 36V
Charge/discharge current		100mA to 4A in 25mA increments Services batteries up to 24Ah. If set above 4A (6A), the current automatically scales down.	100mA to 4A in 25mA increments	100mA to 6A in 25mA increments
Maximum charge power		40W per station; 40W total	55W per station; 80W total	75W per station; 170W total
Maximum discharge power		35W per station; 70W total	35W per station; 140W total	50W per station; 200W total
Power management		On high load demands, the current scales down; large batteries may go on waiting queue		
Line voltages		100 to 240VAC, 50-60Hz 1.5A max	100 to 240VAC, 50-60Hz 1.75A max	100 to 120 / 200 to 240VAC, 50-60Hz 4A max
Chemistries		Lithium-ion, nickel-metal-hydrde, nickel-cadmium, lead-acid		
Charge method		Lithium-ion and lead-acid: constant voltage with current limit. Nickel-based: constant current with Reverse Load Charge adjustable from 5-12%. Customized charge methods possible. Automatic full charge detection, safe termination under all conditions. Temperature controlled.		
Discharge method		Constant discharge current to end-of-discharge voltage threshold		
Battery Adapters		<i>SnapLock™</i> system; custom and universal types. Contain C-code to configure analyzer to the correct setting. Each adapter has room for 10 C-codes to service different battery types. Re-programmable with menu function. Temperature controlled.		
Service programs		Grouped into Basic, Advanced and Custom programs. Allows manual and automated service.		
Security	Level 0 Level 1 Level 2	Open, no programming restrictions (default) Password protected (low); allows C-code selection and display options Password protected (high); most programming choices locked		
Display		80-character LCD, backlit; each station also features RUN, READY, FAIL signal lights		
Data Ports		RS-232 interfaces to PC, serial printer or label printer. <i>BatteryShop™</i> supports special printers.	RS-232, parallel port and USB (future release).	
Throughput	QuickTest™ Full service	30-40 batteries per hour Fleet of 80 batteries typical Throughput on full service is based on monthly maintenance. Each analyzer services two battery batches every 24h (day and night run), 20 days per month.	60-80 batteries per hour Fleet of 160 batteries typical	60-80 batteries per hour Fleet of 160 batteries typical
Physical	Length Width Height Weight	12.1"; 312mm 9.4"; 240mm 3.5"; 90mm 7.1 lb; 3.2 kg	14.4"; 36mm 11.0"; 280mm 3.8"; 100mm 10.05 lb; 4.54 kg	15.4"; 398mm 11.0"; 280mm 4.2"; 107mm 12.1lb; 5.5 kg
Environmental		Recommended operating temperature 41°F to 95°F; 5°C to 35°C; recommended storage temperatures -4°F to 159°F; -20°C to 70°C		
Firmware		Upgradeable with <i>BatteryShop™</i> over the Internet, flash memory. Lifetime upgrade subscription available.		
Approvals		Tested and approved by ITS and TUV to comply with CSA/UL/CE/PSE standards. (PSE not available on C7400ER)		
Warranty		Cadex warrants the analyzer against defective materials and workmanship for a period of three (3) years from the original purchase date.		

BatteryShop™ software

Provides PC-interface to Cadex C7000 Series battery analyzers. Programming is enabled by selecting a battery model from a database of approximately 3000 batteries, scanning the battery's bar code label, or entering the battery parameters through the PC. Current, voltage, and temperature readings are shown in real time graphics. Stores test data, vendor and customer information. Prints battery labels, bar codes and service reports. Supports English, German, French and Spanish.

Expandability	<i>BatteryShop™</i> is licensed for 1, 4, 16, 32, 64 and 120 analyzers; field expandable. RocketPorts (by Control) or USB-to-serial converter (by InsideOut) supports multiple analyzers. A fully expanded system services 480 batteries independently. The maximum file size is 2GB.
Computer requirements	Dedicated PC with MS Windows; 4GB hard drive; 256MB of RAM main memory; increases with more analyzers.
Recommended peripherals	Label printer (DYMO 320 or SE320), windows compatible printers for reports; bar code scanner.

Specifications subject to change

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