



Brand Name of Product	Battery Analyzer
Generic Name of Product	Battery Analyzer
Product Code Number(s)	07-720-0100, 07-740-0100, 07-740-1100
Intended Use	To assess the condition of a battery and provide intelligence to safely service them.
Range of Applications for Product	The Battery Analyzer enables users to keep batteries for their optimal life span.
Key Specifications of Product	 Battery analyzers for Lithium, Nickel, and Lead Acid batteries Display-80-character LCD, backlit, each station features RUN, READY, FAIL signal lights Data ports- RS-232 or USB interfaces to PC (RS -232 recommended) Chemistries- Lithium-ion, nickel-metal-hydride, nickel-cadmium, lead-acid Use to measure capacity, spot check spare capacity after a long day and apply calibration to improve fuel gauge readings. Security- Password protection prevents unauthorized changes of settings. Level 1- Off, allows full access, no programming restrictions (default) Level 2- Low, password protected; allows C-code selection and display options Level 3- High, password protected, most programming choices locked Item code 07-720-0100- Two independent stations Voltage- 1.2 - 16V Charge/discharge current up to 4 amps per station; 40 watts total Maximum discharge power- 35 watts; 70 watts total
	 Charge/discharge current up to 4 amps per station
	• Maximum charge power- 55 watts per station; 80 watts total
	• Maximum discharge power 35 watts; 140 watts total
	 Item code 07-740-1100- High power version Voltage- 1.2 - 36V Charge/discharge current up to 6 amps per station Maximum charge power 75 watts per station Maximum discharge power 75 watts

Shipping & Storage	
Shipping Conditions &	
Requirements	
Storage Conditions	Recommended storage temperature: -4°F (-20°C)- 159°F (70°C)
	Recommended operating temperature: 41°F (5°C)- 95°F (35°C)
Packaging Contents	
Shelf Life	

Instructions for Using Product	
Description of Use(s)	To assess the condition of a battery.
Preparation for Use	Plug in the Battery Analyzer into the power outlet.
	Choose which program the facility will use. There are 3 different programs to choose
	from:
	1. Basic Programs-
	a. Auto- Exercises the batteries and applies Recondition if the user-set target
	capacity cannot be reached.
	b. Charge- Applies a fast charge only.

 d. QuickSort- Sorts lithium-ion packs into Good, Low and Poor in 30 seconds. 2. Advanced Programs- a. Self-Discharge- Determines the rate at which a battery loses charge. b. Life Cycle- Counts the number of charge/discharge cycles before the battery capacity drops to a selected target level. c. Discharge Only- Discharges battery for storage; tests chargers. d. Extended Prime-Applies a 16-hour trickle charge, followed by Prime. Prepares difficult to charge battery for storage; tests chargers. e. Ohm Test- Measures internal battery resistance in 6 seconds. f. Runtime- Simulates field application with three adjustable load currents and time intervals g. Boost- Reactivates seemingly dead batteries that have been discharged too low. h. QuickTest- Provides battery state-of-health in 3 minutes. Needs specific battery matrix. i. Q-Learn- Provides initial QuickTest matrix by scanning a good battery. Service time is 3-5 minutes. j. Learn- Improves QuickTest matrix by scanning a good battery. Service time is 3-6 hours per battery. 3. Custom programs- a. Four separate custom programs allow user-defined programs composed of charge, discharge, recondition, wait and repeats. The programs follow a different path if a certain condition occurs. Batteries in daily use should be serviced every 1-3 months. A 4-station battery analyzer processes 160 batteries based on a monthly maintenance schedule. The Battery Analyzers are automated to reduce the time required to service a
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• The Battery Analyzers are automated to reduce the time required to service a
large battery feet to about 30 minutes per day.
Diagrams (drawings, pictures)
Steps for Use of Product1.Turn on the power switch on the back of the Battery Analyzer. Fig. 1
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Figure 1
2. Once powered up, the unit will flash with Start Up Screen and then it will display the Status Screen which will indicate which Station Pays currently hold
adapters. Fig. 2
CADEX C7400 BATTERY ANALYZER Fn Alt
NO ADAPT NO ADAPT NO ADAPT NO ADAPT
EDIT PRINT 7 8 9
RUN READY FAIL RUN READY FAIL RUN READY FAIL RUN READY FAIL
Eigung 2
3. Each battery adapter is programmed with up to 10 configuration codes known as
C-Codes, allowing you to service all battery types within a product family.
4. You can select and lock a C-Code, compose a new one or make changes to an
existing one.

6. Once you have selected the appropriate battery adapter, install it in one of the four stations of the Battery Analyzer. Fig. 3
Figure 3 7. Before servicing a battery, you can verify the C-Code and service program by pressing the appropriate station key (#3). Fig. 4, Fig. 5 CADEX C7400 BATTERY ANALYZER NO ADAPT NO ADAPT EMPTY NO ADAPT RUN READY FAIL RUN
Figure 4
CADEX C7400 BATTERY ANALYZER S3 C1 Pgm: QuickTest Target: 80% Type: Li Volts: 3.60 mAh: 500 RUN READY FAIL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Figure 5
 There can be a maximum of 10 C-Codes per battery adapter. Use the Up and Down arrow keys to choose program. See list below. Fig. 6
CADEX C7400 BATTERY ANALYZER S3 Cl Pgm: QuickTest Target: 80% Type: Li Volts: 3.60 mAh: 500 RUN READY FAIL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Figure 6
 C2- Prime C3- Auto C4- Charge C6- LifeCycle
C7- CustomC8- OhmTest

 C. 10⁴ BOOST 9. Once the C:Ode has been selected, you can then modify a number of options associated with the C:Ode. These include its associated Service Program, will be retained in the adapter, even if removed. 10. There are 4 Basic Programs 9. Advanced Programs (including user-programs) and One Override Program. Each program serves a special battery need. 11. Basic Program 3. Prime-Prepares a new hattery for field use by cycling unit pack expansity before recondition and the improved final capacity is readed to applie the capacity before recondition and the improved final capacity. 13. Basic Program 4. Charge-Applies fast charge, no capacity reading taken. 14. Advanced Program 1. Self DCH: Tests self-discharge of a battery by calculating the capacity loss during as stitume. Allow ample time to complete. 15. Advanced Program 3. D(2)(0): Discharge shattery to the end-of-discharge threshold, then the programs. Sharks: Recommended for hattery storage. 17. Advanced Program 5. OhnTest- Measures internal battery resistance. The measurement is taken at the lowes treasistance during during during backnarge. 18. Advanced Program 9. Custom-Alpows as 16-hour trickle charge, followed by Prime. 19. Advanced Program 9. Custom-Alpows as 16-hour trickle charge, followed prime. 19. Advanced Program 9. Custom-Alpows as 16-hour trickle charge of all discharge local. Allows setting of 3 different discharge levels, which repeat during discharge. 20. Advanced Program 9. Custom-Alpows as 16-hour trickle charge of allowed by prime. 21. Advanced Program 9. Custom-Alpows as 10-hour trickle charge of allowed by prime. 22. Advanced Program 9. Custom-Alpows extiting of unique cycle sequences composed of hange, discharge, recondition, trickle charge or any combination, including trest periods and repeats. The analyzer offers 4 independent custom program splits a genice has provide to the trick therge too low. The		• C9- RunTime		
 a Sociated with the Code. These include it associated Service Program, the Targel Capacity or its C-Code Prameters. Any changes to these options will be retained in the adapter, even if renoved. a There are 4 Basic Programs. 9 Advanced Programs (including user programmable Custom Program) and One Override Program. Each program serves a special battery need. Basic Program 4-D Prime Prepares a new battery for field use by cycling until peak capacity is reached. The last 5 capacity readings are shown on the LCD. Basic Program 4-A Juno-Exercises nickl-based hatteries and applies recondition if the target capacity canding are shown on the LCD. Basic Program 4-Charge-Applies flat charge, no capacity readings the initial capacity, the capacity before recondition and the improved final capacity. Basic Program 4-Charge-Applies flat charge, on capacity reading the capacity loss during a set time. Allow ample time to complete. Advanced Program 3- LUGON-Cycles battery null capacity drops below set target. Keeps score of the number of charge discharge cycles completed. Advanced Program 3- DUGON-Discharge battery to the end-of-discharge threshold, then the program stops. Recommended for battery storage. Advanced Program 5-Ohm Test. Measures internal battery resistance. The measurement is taken at the lowest resistance during charging. Advanced Program 5-Ohm Test. Measures internal battery resistance. The measurement is taken at the lowest treis target discharge load. Allows setting of motion setting of an induce setting expension. Advanced Program 5-Ohm Test. Measures internal battery setting to a composed of charge, discharge, recondition. Induced Program. Advanced Program 5-Ohm Test. Measures internal battery expenses composed of charge, discharge, recondition, trickle charge of used with set on target is target. Keey is begin disting the epidemic set on the code of charge. discharge, recondition, trickle charge of u	0	• CIU- BOOST		
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 Baske Program 3- Allo- Exercises incect-based batteries and sphiles recondition if the target capacity leafor recondition and the improved final capacity. Basic Program 4-Charge-Applies fast charge: no capacity reading taken. Advanced Program 1- Self DCH- Tests self-discharge of a battery by calculating the capacity lass during a set time. Allow ample time to complete. Advanced Program 2- LifeCycle- Cycles battery until capacity drops below set target. Keeps score of the number of charge/discharge battery to the end-of-discharge threshold, then the programs stops. Recommended for battery storage. Advanced Program 5-OmTest- Measures internal battery resistance. The measurement is taken at the lowest resistance during discharge load. Allows setting of a different discharge levels, which repeat during discharge load. Allows setting of a different discharge levels, which repeat during discharge load. Allows composed of charge, discharge, recondition, tirkle charge, followed by Prime. Advanced Program 5-Outom-Allows setting of mituge cycle sequences composed of charge, discharge load. Allows setting of a direcy composed of charge, discharge load. Allows setting of a direcy levels, which seed batters. When the critical terminal voltage is reached, Boost and works on nickl-based batters. When the critical terminal voltage is reached, Boost and works on nickl-based batters. When the critical terminal voltage is reached, Boost and works on nickl-based batters. When the critical terminal voltage is reached. Boost and works on nickl-based batters. When the critical terminal voltage is reached, Boost and works on nickl-based batters. Now select as ervice program 4. Stres 7. Stres 7. Advanced Program 4. Advanced Program 4. Advanced Program 4. Advanced Program 4. Advanced Program 5. Advanced Program 5. Advanced Program 5	12	Presix Program 2. Anter Francisco in the literation of the LCD.		
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 1. Advanced Program 2. LifeCycle. Zycles battery unit learning to the order picture. 1. Advanced Program 4. DzCOnly. Discharges battery to the end-of-clickarge threshold, then the programs stops. Recommended for battery storage. 1. Advanced Program 5. OhmTest- Measures internal battery resistance. The measurement is taken at the lowest resistance during charging. 1. Advanced Program 6. RunTime- Simulated digital discharge. The measurement is taken at the lowest resistance during charging. 1. Advanced Program 9. Custom- Allows setting of unique cycle sequences composed of charge, discharge, recondition, trickle charge or any combination, including rest periods and repeats. The analyzer offers 4 independent custom programs. 2. Override Program - Boost- Wakes up batteries if the voltage is too low. The program applies a gentle charge to activate the protection circuit on Li-ion. Boost also works on nickel-based batteries. When the critical terminal voltage is reached. Boost automatically switches to the selected Service Program. 2. Now select a service program 2. Click on the "Edit Key" to begin editing the options for this C-Code. The display cursor will flash next to the Service Program. 2. Now select a service program 3. Click on the "Edit Key" to begin editing the option flow the available Service Programs. Fig. 8 4. Next use the Up and Down Arrow Keys to seroll through the available Service Programs. Fig. 8 	14	alculating the connectity loss during a set time. Allow completions to complete		
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 a. Override Programs. Boost - Wakes up batteries if the voltage is too low. The program applies a gentle charge to activate the protection circuit on Li-ion. Boost also works on nickel-based batteries. When the critical terminal voltage is reached, Boost automatically switches to the selected Service Program. a. Now select a service program b. Now select a service program c. Lick on the "Edit Key" to begin editing the options for this C-Code. The display cursor will flash next to the Service Program field. Fig. 7 b. Type: Li Volts: 3.40 ************************************		including rest periods and repeats. The analyzer offers 4 independent custom		
 21. Override Program-Boost- Wakes up batteries if the voltage is too low. The program applies a gentle charge to activate the protection circuit on Li-ion. Boost also works on nickel-based batteries. When the critical terminal voltage is reached, Boost automatically switches to the selected Service Program. 22. Now select a service program 23. Click on the "Edit Key" to begin editing the options for this C-Code. The display cursor will flash next to the Service Program field. Fig. 7 24. Now select a service program (Figure 7 (Figure 7)) 25. Type: Li Volts: 3-b0 *An: 500 26. Next use the Up and Down Arrow Keys to scroll through the available Service Programs. Fig. 8 26. Next use the Up and Down Arrow Keys to scroll through the available Service Programs. Fig. 8 27. Type: Li Volts: 3-b0 *An: 500 28. Type: Li Volts: 3-b0 *An: 500 29. Type: Li Volts: 3-b0 *An: 500 20. Type: Li Volts: 3-b0 *An: 500 <li< th=""><th></th><th>programs.</th></li<>		programs.		
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- 25. **Target Capacity Settings-** You can also change the Target Capacity located to the right of the Program. Standard Target Capacity settings are as follows:
 - 90%-100%- Critical applications requiring top performing batteries. Fewer batteries will pass.
 - 80%- Recommended nominal setting.
 - 60%-70%- Less stringent applications; more batteries will pass.

Note: The Target Capacity does not affect the charge level; the batteries are always fully charged.

26. Selecting a Target Capacity- To highlight the Target Capacity field, click the Right Arrow Key, which will move the cursor from the previously selected Service Program field. Fig. 9





27. Now use the Up and Down Arrow Keys to change the Target Capacity Setting. Fig. 10



Figure 10

- 28. **C-Code Parameters-** Next change several C-Code parameters. This includes battery chemistry ('Type'), the voltage ('Volts'), and capacity ('mAh').
- 29. First change battery chemistry, click on the Right Arrow Key to move the cursor from the Target Capacity field. **Fig. 11**



Figure 11

30. Then use the Up and Down Arrow Keys to change the Battery Chemistry Setting. Fig. 12









F

Figure 24

51. Detailed Results- To view detailed test information, click the Station Key for the station where the test was ran (Station Key 3). The test results are indicated in percentage (%) of the nominal battery capacity. Fig. 25. The percentage reading flashes during discharge. The figure advances and freezes at the end-ofcharge. Multiple percentage readings are shown if the service program calls for several discharge cycles.





52. Other test data include battery voltage, discharge current, internal battery resistance, battery temperature and elapsed time. Temperature is only displayed if a temperature sensor is available on the battery adapter. **Fig. 26**



Figure 26

 Printing Reports- Click on the Print Key to print the results in a number of convenient formats including either a Battery Label or a Full Service Report. Fig. 27



Figure 27

54. Select and click the station number (#3) to print and click the Enter Key to view the report or lable. Fig. 28



55. Once the battery is finished being serviced, you can print the results in a number of formats including either a Battery Label or a Full Service Report.

Reprocessing Instructions	
Point of Use	
Preparation for Decontamination	
Disassembly Instructions	

Cleaning – Manual	
Cleaning – Automated	
Disinfection	
Drying	
Maintenance, Inspection, and	Warranty-
Testing	• 2-year warranty from the original purchase date.
	Power Management-
	• Batteries on a fully loaded system may go on waiting queue. Will resume when demand moderates.
	Service Programs-
	• 18, grouped into Basic, Advanced and Customer programs. Allow manual and automated service.
	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.
	Prepare batteries for their initial testing-
	 Nickel based batteries typically last for 500-1,000 cycles.
	• Nickel-based batteries should be run through the "PRIME" program to prepare
	them for use. Sometimes running this test multiple times is necessary for fully "form" the battery.
	• Lithium-ion batteries should be run through the "AUTO" program to exercise
	them to ensure they meet minimum performance standards. It is not uncommon
	for some new batteries to not meet published specifications.
	 Both Nickel-based and Lithium batteries should be run through the "AUTO"
	program to properly recondition them to ensure maximum performance.
	Discharge Method-
	 Constant discharge current to end-of discharge voltage threshold.
	Power Failure Recovery-
	• Recover retains the test date on power failure and resumes when power is restored. Time on power failure and resumption is recorded.
	Throughput-
	• 30-40 batteries/hour- 07-720-0100
	• Fleet of 80 batteries
	• 60-80 batteries/hour- 07-740-0100
	• Fleet of 160 batteries
	• 60-80 batteries/hour- 07-740-1100
	Fleet of 160 batteries
Reassembly Instructions	
Packaging	
Sterilization	
Storage	Recommended storage temperature: - 41°F (-20°C)- 159°F (70°C)
Additional Information	Tested and approved by ITS to comply with CSA/UL/CE standards. RoHS and WEEE compliant.
Related Healthmark Products	
Other Product Support Documents	ProSys ¹ ^M Brochure, ProSys ¹ ^M Price List
Reference Documents	
Customer Service Contact	Healthmark Industries Company, Inc.
	18000 Malyn Blvd.
	Fraser, MI 48026
	1-380-//4-/600
	nealthmark@hmark.com
	mnark.com