

## Key Benefits of the Cadex 7200 and 7400 Over Competitive Battery Analyzers

- 1) Supports all five battery chemistries: NiCd, NiMH, SLA, Lithium ion and Li-Polymer. Some competitors do not support Li-ion or require a separate battery adapter.
- 2) Batteries are tested against preset voltage and capacity settings using proper charge algorithms. Some competitors use a 'one-fits-all' setting that is not flexible and does not provide high accuracy.
- 3) Tests batteries 2 to 3 times faster than other analyzers using C-rate programmable charge currents for accuracy. Some competitors use a fixed charge/discharge current, regardless of battery size leading to longer service time and less accurate results.
- 4) Cadex Analyzers use the QuickTest program providing the State of Health in 3 to 5 minutes – this provides the fastest throughput analyzer on the market.
- 5) Over 800 easy to insert *Battery Adapters* simplify battery connection. Some competitors have a limited variety of adapters, and require technical expertise to change them. Some adapters are not able to service Li-Ion batteries or Li-Polymer batteries.
- 6) Each C7 Battery Adapter can be programmed with 10 unique C-codes to service all batteries of same footprint. Some competitors require a different adapter for each battery size.
- 7) The battery information is stored in the adapter for optimum flexibility. Stored information includes: chemistry, voltage, mAh rating, charge/discharge rates, charge method, end-of-discharge, etc. Competitors put these settings permanently into the analyzer so they cannot be changed.
- 8) All battery parameters are user-programmable through the C7 analyzer's keypad. Most competitors offer fixed settings.
- 9) Automated programs optimize operation. For example: *Quicktest* provides the State of Health in 5 minutes, *Prime* prepares a battery for field use; *Auto* restores weak batteries. Our competitors offer only discharge/charge cycles and the more advanced competitors provide Prime or Condition functions that are only several charge discharge cycles.
- 10) *Target Capacity* setting allows automated battery service. Batteries that do not meet the set target are automatically reconditioned when in *Auto* mode. Our competitors do not offer this unique feature, they simply cycle the battery several times, regardless of battery condition.
- 11) Capacity is shown in percentage of the nominal battery rating. Our competitors indicate the capacity in mAh, requiring the user to be familiar with the rating of each battery type serviced and to manually calculate if the capacity is acceptable.
- 12) *Recondition* mode commonly restores nickel-based batteries to full service using a very deep discharge below the battery end-of-discharge voltage to dissolve memory formation. Our competitors classify these batteries as dead because they do not offer this feature. Competitors tend to use the word *Recondition* to describe *Condition*, which is the function of the Cadex PRIME program – this provides several charge and discharge cycles primarily used to condition new batteries for field use.
- 13) Unique, proprietary *QuickTest* checks battery condition and provides the state of health in five minutes using fuzzy logic algorithms. Our competitors do not offer this powerful feature and are unable to recreate it.
- 14) The proprietary *Boost* function "wakes" dead batteries or batteries with very low voltage, allowing them to be charged again. This function is only available from Cadex.

- 15) *Reverse Load Charge* reduces gas buildup, keeps battery cool during service, optimizes battery performance and prolongs battery life. Some competitors use only DC charge.
- 16) Detects over 30 fault codes providing a comprehensive method of quality assurance testing and fault tracking. Our competitors do not go into such detail.
- 17) Prints detailed service reports and labels to serial and parallel printers. Some competitors need a PC to run a printer and only provide basic information.
- 18) *Data Retention* resumes service after power failure. Our competitors do not offer this feature.
- 19) Batteryshop™ software provides a simple yet powerful PC network interface to control and monitor up to 128 Cadex C7 battery analyzers. The BatteryShop database contains over 2000 battery models with pre-programmed test algorithms, along with many customized programs. BatteryShop stores service information and tracks battery usage. No competitive analyzer has comparable software.
- 20) Units are easily upgraded over the PC using the Cadex Firmware Upgrade Utility (comes with BatteryShop).
- 21) Cadex offers a three-year warranty. Most competitors offer shorter warranties.