

BEST-128

BASELINE ELECTRICAL SYSTEM TESTER



SIMPLIFYING ELECTRICAL SYSTEM MAINTENANCE

The BEST is a multi-function portable electrical analysis and testing system. BEST capabilities include live signal monitoring, signal analysis, data recording, wiring troubleshooting, and repair verification. BEST eliminates the time consuming process of single wiring troubleshooting. BEST automatically tests every wire at the connector. Integration with the optional Site Server provides baselining of all measurements for trend analysis or evaluation of live signal signatures.

BEST PROVIDES A COMPLETE INSPECTION ENVIRONMENT

Electrical wiring is the largest and one of the more complex systems on a vehicle. As such, electrical and wiring faults exhibit complex behavior, often resulting from other system faults or causing other system problems. The BEST provides an intelligent environment for system inspection and logging/documentation of these related faults and other issues discovered while inspecting the electrical system. Baselining includes physical integrity and electrical characteristics for Condition Based Maintenance.

MORE THAN JUST PORTABLE

The BEST-128 weighs just 8.5 pounds for easy portability and can run for 6 hours or more on a single battery charge (or operated indefinitely on AC charger power). The Handheld display unit connects to the BEST using WiFi wireless or USB (for lower power operation). Wireless connection allows the operator to freely move about to further inspect the wiring under test or to manipulate the wiring to stimulate an intermittent fault.

<u>Features</u>	→	<u>Benefits</u>
128 wire sweep testing		Major Time Savings
Live and unpowered testing		Flexibility for fault detection
Testing with loads in place		Not just wiring
Baseline evaluation & validation		Trends & Quality Assurance
Long battery life (6 hours typical)		Use through shift
Wireless connectivity		Convenience and Flexibility
Open system for expansion		Flexibility and Growth
COTS accessories including: TDR/FDR Oscilloscope Camera Barcode		Expansion for inspection, analysis and troubleshooting

BEST APPLICATIONS INCLUDE:

- Live electrical signal monitoring
- Baseline Correlation
- Signal analysis (loads and sources)
- Data capture and recording
- Sensor data monitoring
- Electrical system troubleshooting

FEATURING:

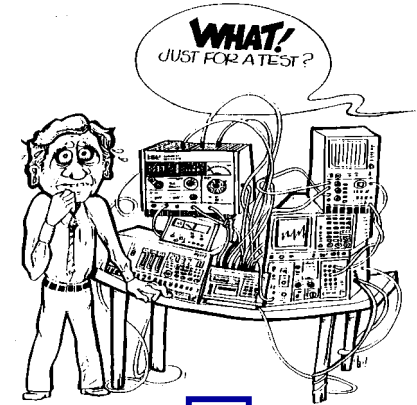
- Connectors for automated analysis of up to 128 wires per harness
- Live electrical signal analysis
- Location of open, short, and intermittent wiring faults
- DVOM and optional oscilloscope functions
- PC/104 bus for expansion
- WI-FI, Ethernet, and USB connectivity

BENEFITS INCLUDE:

- Rapid location of electrical faults
- Reduced manpower
- Increased operational availability
- Troubleshooting modes for locating intermittent and other troublesome faults

ADAPTABLE SYSTEM:

- Reconfigurable from handheld PDA to rugged tablet PC or other computer interface
- Substitute easy portability or large, detailed screens
- Easily integrates with other general and special purpose test equipment
- Harness adapters can be configured to interface BEST with any electrical system or harness



BEST-128 SPECIFICATIONS

Physical	Size: 10" x 5" x 12"	Weight: 8.5 lbs.
Power	Battery: Li-Ion (6 hours operate) 110 VAC charge circuit (3 hour charge)	
Operator Control	Front Panel: Power Switch, 3 LEDs and Audio Jack	Handheld: Ruggedized WinCE device with control and display pages
Input Protection	Specified operation with input voltages up to ± 300 VDC or 220 VAC	
Output Stimuli	Max Output: 1.5 Volts AC (fuel cell safe)	
Accuracy	Ohmmeter:	1% of full scale
	Voltmeter:	1% of full scale
	Opens:	2 inches or 2% whichever is greater
	Shorts:	2 inches or 2% whichever is greater
Sweep	Up to 128 connections or single wire mode	
Output voltages	3.5 volts max. (fuel cell safe)	

Management Sciences, Inc.