

Get the Big Picture in the Palm of Your Hand

MIDTRONICS

EXP-1000

Expandable Electrical Diagnostic Platform

The EXP-1000 Expandable Electrical Diagnostic Platform marks the next generation of handheld analyzers. So revolutionary, it makes other electrical system diagnostic tools obsolete. Allowing you to diagnose every part of the electrical system, from the battery to the starter and alternator, more accurately and decisively than ever before. This platform combines one of the largest, easiest-to-read displays in the industry with the full functions of an advanced analyzer, digital multimeter, and data management tool... all in the palm of your hand.

Features:

Dynamic Conductance Battery Testing Technology

- Combines direct temperature measurement with deep scan technology to improve accuracy and decisiveness

Advanced Electrical System Diagnostics Featuring Digital Signal Processing

- Digital Signal Processing (DSP) provides the ability to analyze the amplitude level and frequency of the ripple pattern for improved accuracy and identification of open or shorted diodes and open-phase conditions

DMM Function for Advanced Diagnostics

- AC/DC Volts
- Volts/Amps mode
- Temperature
- Ohm meter
- AC/DC Amps
- Scope mode
- Diode test

Patented Conductance Cable Drop Test

- Interactive test routines using dual cable sets for more effective analysis of voltage drop across ground circuit, starter system, alternator system, and generic system testing

Enhanced Communications Capabilities

- IR printer option
- Data card reader/writer for future upgrades

Superior User Interface

- Large graphical screen for icons and improved explanations
- Scroll bar capability means fewer overall screens
- Alphanumeric keypad, icon-based menus and hot keys improve logic and flow



EXP-1000 Features



6-pin connector

Easy to read
Large backlit screen

10 ft cable with
dual conductor
Kelvin clamps

Soft keys

Arrow key scrolling

Alphanumeric
keypad

Data card slot for
future upgrades

DB-9 connector for
future expandability

Dynamic Conductance Technology

Breakthrough battery testing technology from Midtronics delivers improved battery testing accuracy and decisiveness.



Direct Temperature Measurement

Creates a third dimension to the Midtronics battery test algorithms, improving decisiveness and making all decisions more accurate.



Deep Scan Testing

Uses multiple frequencies and test points on deeply discharged batteries to make more decisions so that customers can avoid charging batteries with shorts, opens, and bad cells.



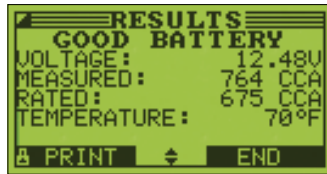
Accessory port

IR Data Transmitter

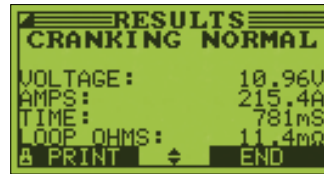
IR Temperature
Sensor

EXP-1000 Enhanced Diagnostics

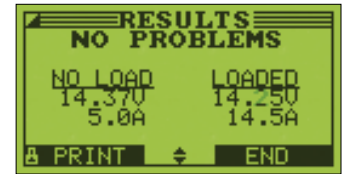
Battery



Starter



Alternator



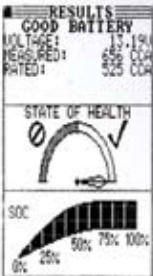
**inTELLECT
EXP**

Test Report

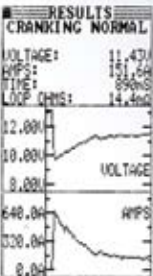
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USA
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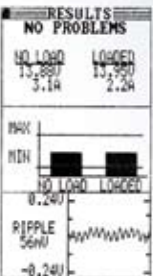
BATTERY TEST



STARTER TEST



CHARGING SYSTEM TEST



RECEIVE 10% OFF
ANY BATTERY,
ELECTRICAL
SERVICE, OR PARTS
PURCHASE WITHIN
THE NEXT 90 DAYS
WITH THIS RECEIPT

More functions and expandability



From battery, starter, and alternator diagnostics to circuit integrity testing, the EXP is the most versatile and reliable electrical diagnostic tool on the market today. With the ability to perform more tests with one tool, you can be more efficient, cut costs, and easily update to the newest technologies

Enhanced Starter Diagnostics



Using the optional Amp Clamp provides an enhanced level of diagnostics beyond just starter voltage drop. The EXP starter diagnostics include starter amps draw, voltage drop, start time, and starter circuit resistance resulting in more accurate results.

Digital Signal Processing (DSP) Capability



For Advanced Alternator Diagnostics the EXP uses superior DSP capability to digitize the measured alternator output voltage and evaluate the spectral content of the signal. This digitized signal allows the EXP to combine pattern recognition with the amplitude level of the AC signal for improved accuracy and identification of open or shorted diodes and open phase conditions, (multiple diode failure or winding problems).

Specifications:

Model:

- EXP-1000 - EXP-1000 Analyzer, 10' Battery Test Cable, DMM Clamps and Probes, Carrying Case, and Stud Adapters

- EXP-1000 AMP - EXP-1000 Analyzer, Amp Clamp, 10' Battery Test Cable, DMM Clamps and Probes, Carrying Case, and Stud Adapters

- EXP-1000 KIT - EXP-1000 Analyzer, IR Printer, 10' Battery Test Cable, DMM Clamps and Probes, Carrying Case, and Stud Adapters

- EXP-1000 AMP KIT - EXP-1000 Analyzer, Amp Clamp, IR Printer, 10' Battery Test Cable, 10' Cable Verification Leads, DMM Probes, Carrying Case, and Stud Adapters

Applications:

- Tests 6 and 12 volt automotive and marine batteries (including AGM batteries)
- 12 volt charging system diagnostics

Power Requirements:

- (6) AA Alkaline batteries

Operating Range:

- 6 and 12 volt batteries

Rating System	Range
CCA	100-3000
CA	100-3000
MCA	100-3000
JIS	By JIS number
DIN	100-1000
SAE	100-3000
IEC	100-1000
EN	100-3000

Display:

- 128 x 64 pixel graphics, backlit display

Temperature Compensation:

- Built-in temperature measurement when prompted by analyzer

Operating Temperature:

- 32° F – 120° F (0° C – 49° C)

Test Leads:

- 10 ft cable with dual conductor Kelvin clamps

Housing Material:

- ABS plastic with Santoprene overmolds

Dimensions:

- 9.5 in H x 4 in W x 2.5 in D

Weight:

- 1 lb / 427 g

Carrying Case:

- Heavy-duty molded plastic

Languages:

- English
- Spanish
- French-Canadian

DMM Function	Range	Tolerance
DC Voltage	0-60 V	0.05% + 2 VDC
AC Voltage	0-24 V	0.1% + 3 VAC
Resistance	10 ohm-2 Mohm	2.0% + 4
DC and AC Amps	0-70 A	+/- 3% of reading +/- 1 A
	0-700 A	+/- 3% of reading +/- 1 A
Continuity	< 10 ohm	2.0% + 4 ohm
Diode	0-1.5 V	0.05% + 2 V
Temperature	-20-200°F	1.0% + 5

EXP-1000 Analyzer with Attached Battery Test Cable



Every EXP model includes a protective molded hard-side carrying case. Regardless of which configuration you choose, the carrying case will hold all accessories, with room for future options.



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