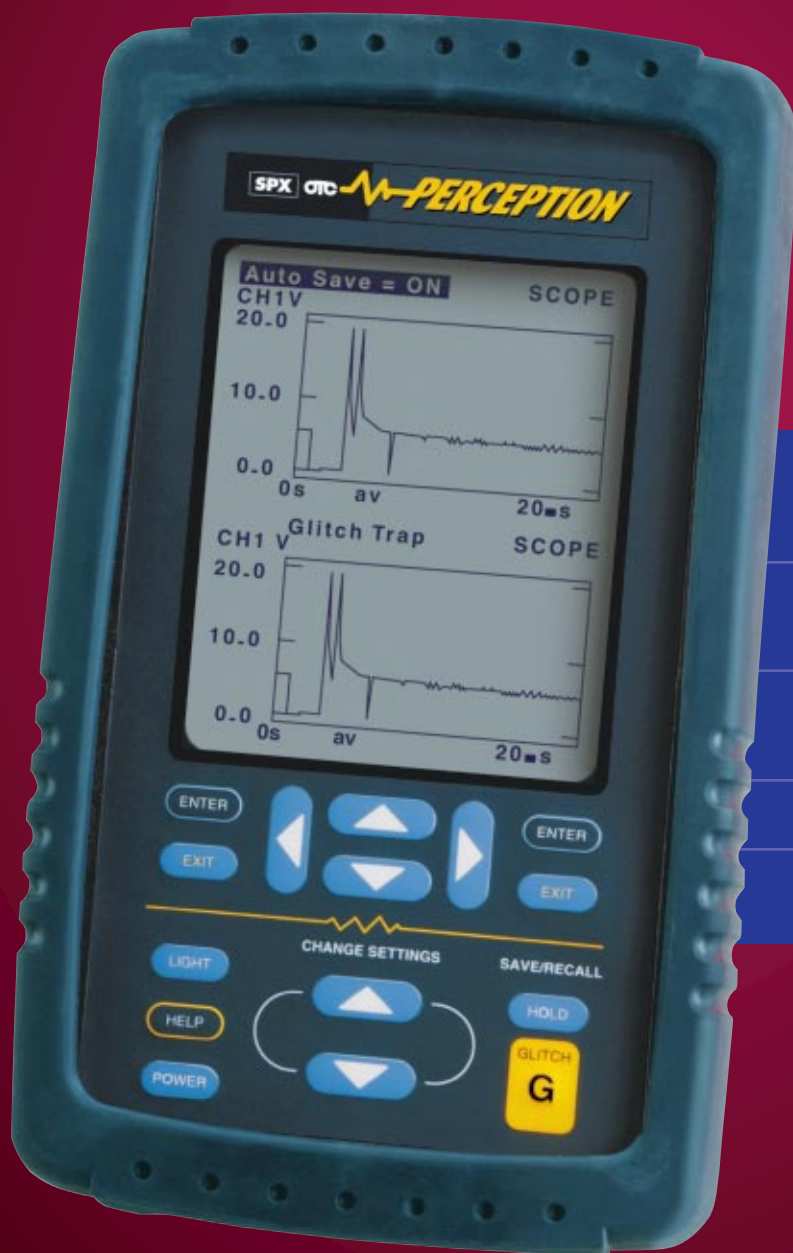


SPX OTC **PERCEPTION**

# HIGH POWERED HIGH PERFORMANCE LOW PRICE!



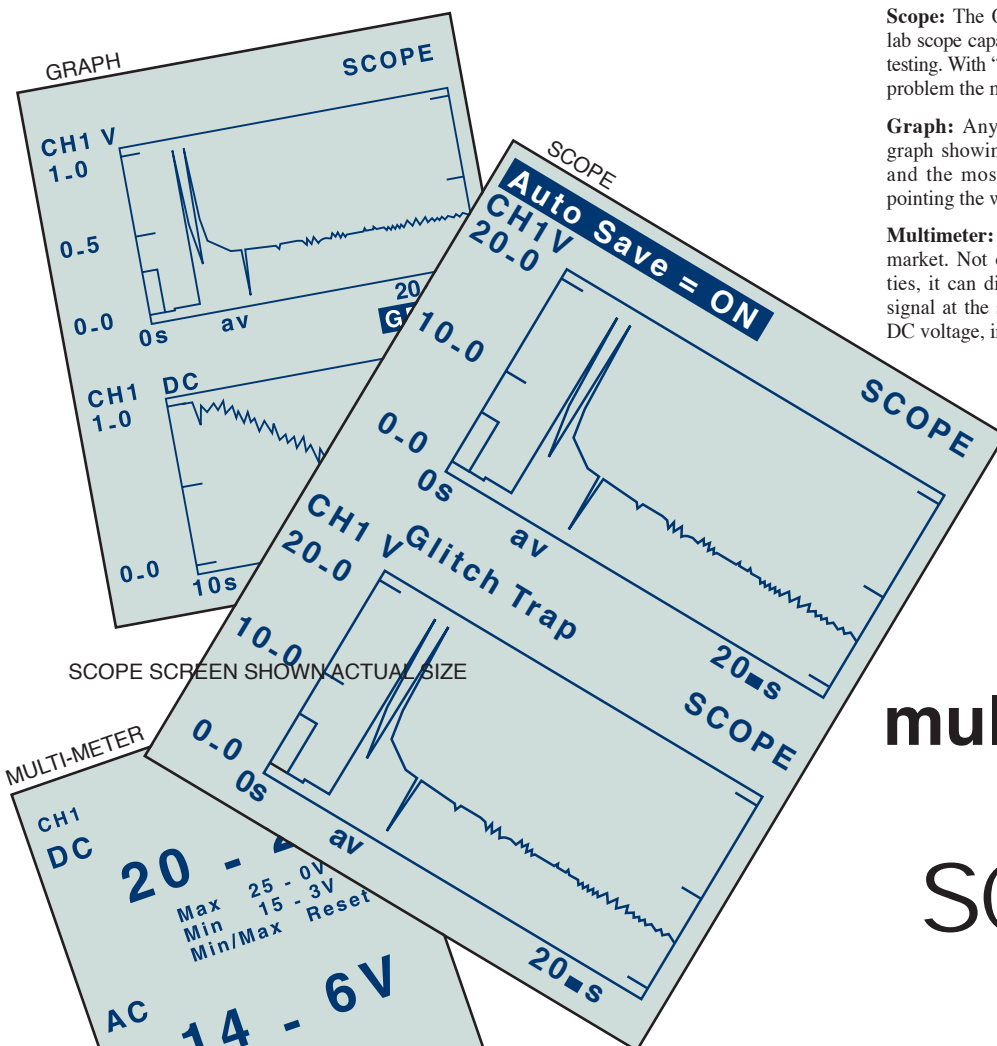
**2-CHANNEL  
LAB SCOPE**

**GRAPHING  
MULTIMETER**

**VEHICLE-SPECIFIC  
DATABASE**

**"GLITCH" CAPTURE**

**UPDATE OVER INTERNET**



SCOPE SCREEN SHOWN ACTUAL SIZE

## Put a multi-talented BIG SCREEN in the palm of your hand!

Big, bold and bright; that's the OTC Perception screen. Brightly backlit, it is clearly visible in even the most severe lighting conditions. Just what you need when you're under the hood at some precarious angle with the meter some distance away!

This graphing multimeter/lab scope is not just bold and bright, it's smart, too. It contains known good waveforms to which you can compare actual waveforms. It incorporates a vehicle database to give you wiring information and recommended test/repair procedures. . . listed in the proper sequence.

It's all packed into a hand-held tester with an ergonomically designed, user-friendly keypad.

Of course, there's more. . .

"Glitch" capture gets its own button. The OTC Perception actually understands the difference between normal and unusual signal patterns, and it automatically recognizes and saves those events for fast, accurate problem diagnosis.



**The new OTC Perception gives you the biggest screen on the market, and is loaded with features you would expect to find in more expen-**

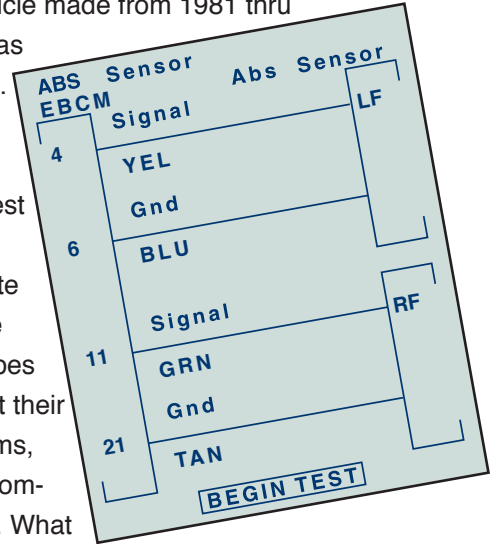
- Most advanced dual trace lab scope available lets you test and compare two signals at the same time.
- Split screen can display both graphing DMM and scope patterns at the same time.
- Simple to use; for component testing, just choose Preset Test and follow on-screen instructions.
- Vehicle-specific database gives wiring diagrams for the circuit, and the recommended test procedure for fast, accurate repairs.
- Full function multimeter offers the fastest sampling rate of any multimeter on the market.
- Multimeter function gives you up to three measurements simultaneously.
- Provides readout on volts, ohms, dwell, duty cycle, peak to peak, peak volts, injector pulse width, injector on time, firing voltage, burn voltage and burn time.
- A 'smart' mode actually recognizes the differences between normal and unusual patterns. The OTC Perception will see, save and store glitches, dropouts and spikes when they occur so you can find the cause of drivability problems.
- Provides highly accurate ignition measurements in both scope and graph modes on individual cylinders.
- Single cylinder ignition troubleshooting gives you digital display of firing kV, burn kV and burn time.
- Use the graph mode to measure and plot signal changes over time and to pinpoint problems.
- Split screen lets you see any two modes at once; multimeter/graph, graph/scope, or scope/multimeter. You can watch the scope and up to three DVOM measurements or watch live scope trace while graphing the signal.
- The OTC Perception will be a mainstay because as changes in systems and technology occur, updates will be available over the Internet from the OTC Bulletin Board. No obsolete equipment or cartridges.

**Vehicle-Specific Database**

Inside the Perception lies a powerful yet easy to use tool for fighting troubleshooting battles. The vehicle-specific database holds information about almost every domestic vehicle made from 1981 thru 1995 as well as many imports.

It also recommends the appropriate test procedure for quick, accurate repairs. While other lab scopes can talk about their wiring diagrams, they cannot compare to these. What

you see on the screen is not some abbreviated drawing of a connector. It is a diagram showing pin numbers and wire colors for both the PCM and the component connector.



Couple the OTC Perception with your PC using OTC's new GTi software, and you'll see live vehicle system information on the big screen. With the resolution you have on a PC monitor, you can dig right down to the smallest point.



## TECHNICAL INFORMATION

### VERTICAL SECTION

Bandwidth: DC to 100 kHz

Channels: 2

Voltage Range: 100 mV to 250 V, full scale

Input Impedance: 1 Meg ohm, 25pF

Coupling: AC/DC

### HORIZONTAL SECTION

Time/Division Range: 20 S/div to 50 uSEC/div.

### DISPLAY SYSTEM

Size: 3" x 3<sup>3</sup>/<sub>4</sub>" (120 x 160 pixels) — Midnight blue

Contrast: User adjustable, accessed through menu

Scope Mode Display: Vertical markings at 0%, 50% and 100% of full scale

Trigger Level Position: Indicated by "T". Channels 1 and 2 position can be set at 25%, 50%, and 75% of full vertical scale.

DMM Mode Display: Consists of selected measurement and cumulative min/max values. Displays up to three measurements on one screen. Measures volts, ohms, dwell, duty cycle, peak to peak, peak volts, injector pulse width, injector on time, firing kV, burn kV and burn time.

Graph Mode: Available on all multimeter functions. Time selectable at 5, 10 and 30 seconds and 1, 5, 10 and 30 minutes full scale. Live and max/min measurements are displayed with graph.

### POWER SPECIFICATIONS

Source: 6 AA alkaline batteries, user replaceable

Operating Time: Approximately 10 hours minimum (without backlight)

External Power: Provision for 110 volt AC power through optional wall transformer No. 3820-03

Low Battery Indication will be displayed

Serial Interface: RS232 interface provided for bi-directional communication with OTC's GTi software for PCs.



### ORDER INFORMATION

**No. 3820** — Perception 2-channel lab scope/graphing multimeter with **No. 3820-01** color coded lead set, **No. 3820-02** secondary ignition lead, **No. 3820-03** 110 volt AC power supply, video and manual in plastic storage case. Wt., 8 lbs.



*SPX Corporation  
655 Eisenhower Drive,  
Owatonna, MN 55060-0995 USA  
Customer Service/Order Entry  
1-800-533-6127 • FAX 1-800-283-8665  
International Sales  
507-455-7290 • FAX 507-455-7063  
Technical Services  
1-800-533-6127 • FAX 1-800-955-8329*