



SPT Analyzer Specifications

June 2009

Physical:

Size: 150 X 220 X 290 mm (5.9 x 8.7 x 11.4 inches)

Weight: 5 Kg (11 lbs)

Temperature range: -10 to 40°C (14 to 104° F) operating; -20 to 65°C (-4 to 149° F) storage

High visibility color VGA backlit LCD display optically enhanced for outdoor viewing

High contrast touch screen doubles as keyboard

Power: built-in battery w/ 6 hour min duration, 12 VDC car battery, or 100-240 VAC w/12 VDC converter

Fast charger recharges built-in battery in 4 hours

Electronic:

PC compatible processor, running Microsoft Windows® XP Home Edition

40 GB hard disk minimum; 512 MB DRAM minimum

Ethernet port; 2 USB ports; VGA external monitor port; Analog signal frequency response 5KHz (-3dB)

24-bit A/D converter with sampling frequency of 5.12 MHz

4 channels with effective digitizing frequency up to 100 KHZ (with cable) or up to 40 KHZ (wireless)

User selectable sampling frequency of 10K to 100K Hz, resulting in user selectable total sample time 82 to 205 milliseconds

Built in calibration test function

Basic unit accuracy 2%

Functional:

Two channels of strain and two channels of acceleration data acquisition

Automatic balancing of signals and signal conditioning

Signal conditioning for force and acceleration have matched frequency response

Internal calibration check of strain and acceleration

Signal amplification capability

Other:

Operates in English, SI, or Metric units

Full one year warranty

Technical manual included