PT™ SERIES
Model PT-ASG1
Audio Signal Generator

ANYWHERE YOU NEED...
• Portable Audio Generator
• Selectable Mic or Line Level Output
• Precision Stable Output
• Precision Audio Reference Level
• Balanced and Unbalanced Outputs
• Operation from a 9 V Battery or 24 Vdc
• Connectorized Outputs
• Programmable +4 dBu or +6 dBu Output
• Portable or Bench Operation

You Need The PT-ASG1!
The PT-ASG1 is part of the group of versatile and convenient portable products from Radio Design Labs. The PT Series feature the superior engineering and components common to RDL products. A stable internal reference sets a new standard for accuracy in portable instruments. Durable yet lightweight metal enclosures house superior circuitry for years of unparalleled performance. Test leads and a bench top stand are included. An optional carrying case (PT-IC1) and AC power adapter (North America; PS-24B, Continental; PS-24E) are available.

APPLICATION: The PT-ASG1 is the ideal choice in applications requiring a stable audio signal source for system verification, alignment and testing.

The PT-ASG1 is a portable audio oscillator providing stable output levels. The internal oscillator operates at 700 Hz allowing aural monitoring of the signal without the fatigue associated with oscillators running at a higher frequency such as 1 kHz. The 700 Hz signal is in the midrange passband of the audio system while being easily distinguished from either 400 Hz or 1 kHz signals. The oscillator circuit is FET controlled for stability. The oscillator output is compared against an internal temperature-stable reference in a gain controlled loop that adjusts the final output level. The resulting output level stability is suited to accurate bench top audio testing.

Two outputs are provided on the PT-ASG1. The XLR balanced output is front-panel switch selectable for MIC or LINE level. The line level is factory set to +4 dBu, but can be programmed to provide +6 dBu. The level preset (+4 / +6) switch is located in the battery compartment. When the front-panel level switch is set to MIC, the XLR output level is set to -46 dBu, 50 dB below +4. The unique PT-ASG1 output network produces the equivalent output level into low impedance (200 Ohms) and higher impedance (>1000 Ohms) mic preamps. This makes the PT-ASG1 the ideal signal source for 50 dB mic-to-line gain setup of any RDL module or other industry mic preamp. The second output is a continuous -10 dBV on a phono jack. This signal is matched to consumer audio inputs or modules with a -10 dBV unbalanced audio input.

The PT-ASG1 operates either from an internal 9 volt battery or from an external 12 Vdc to 30 Vdc supply. When operated from the internal 9 volt battery, the LOW BATTERY LED glows steadily when less than one hour operating time remains. The POWER ON LED is illuminated when the PT-ASG1 is operating from internal or external power.

The precise output stability, rugged construction and versatility make the PT-ASG1 the ideal portable or bench top instrument for audio equipment level adjustment.
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Specifications:
- Balanced Output Level (Selectable):
  - Line: +4 dBu (+6 dBu, switch selectable, 2.5 kΩ load)
  - Mic: -46 dBu (2.5 kΩ load, 50 dB below +4 dBu)
- Unbalanced Output Level: -10 dBV
- Oscillator Frequency: 700 Hz nominal
- Output Stability: Better than 0.01 dB
- Power Requirement: 9 V Internal, 12 to 30 Vdc External @ 20 mA
- Dimensions: Height: 5.22 in. 13.26 cm, Width: 2.81 in. 7.14 cm, Length: 1.39 in. 2.53 cm

EMC:
- Installation/Operation: EN55103-1 E1-E5; EN55103-2 E1-E4
- Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product.
- Specifications are subject to change without notice.

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