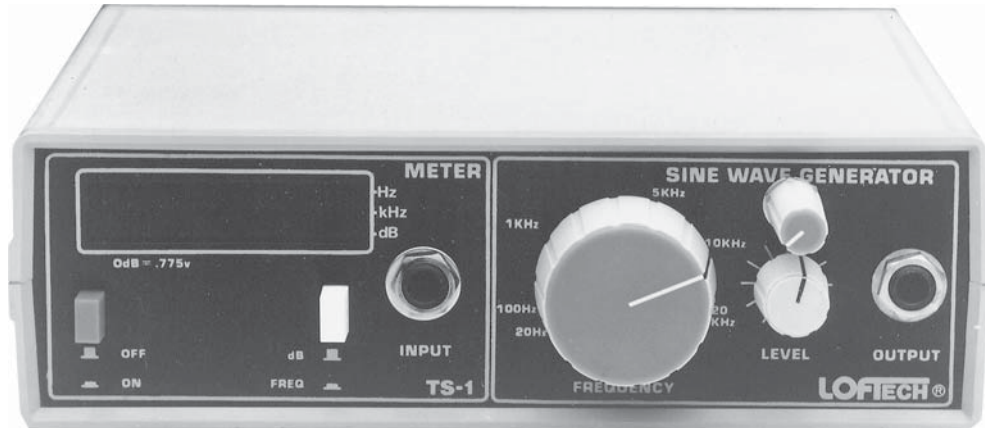


Tool Guide



Test, Tools, Tips and Applications

Gold Line Model TS1 Audio Test Set



The Gold Line TS1 is a three-function audio test set comprised of a low distortion oscillator, frequency counter and dB meter all contained in one unit.

The panel display is a four-digit LED, and the input and output connectors are 1/4" phone jack (TSR).

The unit requires 115 VAC, and the optional battery pack allows the unit to be taken into the field with an attached rechargeable Gel-Cell battery.

Size (W x H x D) is 7-7/8" x 2-5/8" x 7", and weight is 2 lbs. The TS-1 case material is a high impact ABS, with front and rear panels of painted aluminum.

The Low Distortion Oscillator

This is a current controlled, state-variable true sine wave oscillator incorporating a fast AGC circuit. Dis-

tortion components are typically 0.1% (2nd) and 0.05% (3rd), which are low order and not audible, making the TS1 useful in making listening tests where a function generator would generate undesirable, audible side effects. Full frequency sweeps can be made from 20Hz - 20kHz in a single range; the TS1 unit exhibits no amplitude changes over the entire frequency range.

- Frequency range: 10 Hz - 30 kHz
- Accuracy: ± 0.1 dB from 20 Hz - 20 kHz.
- Output impedance: 50 ohm unbalanced. (Optional balanced available.)
- Adjustable output level: -70 dBv to +18 dBv (reference 0.775V)
- Distortion: $< 0.3\%$ THD

- Maximum output level: +18 dBv @ 2k ohm or greater, +16.5 dBm @ 600 ohms.

The Frequency Counter

The frequency counter is internally connected to the internal oscillator and displays the oscillator frequency until a signal is plugged into the input connector. It then displays the frequency of the input signal. This unique combination allows absolute precision in setting frequencies.

- Frequency response: 1 Hz - 99.99 kHz
- Input impedance: $> 100k$ ohms (electronically balanced).
- Input level: -40 dBv to +24 dBv (reference 0.775V)

The dB Meter

The dB meter is a wideband average responding AC voltmeter. The circuit output is converted to dB for display. Direct reading dB greatly simplifies alignment procedures.

- Meter Range: -50 dBv to +24 dBv (ref. 0.775V)
- Accuracy: ± 0.1 dB from 20 Hz - 20 kHz @ 0 dBv
 ± 1.5 dB from 20 Hz - 20 kHz @ 50 dBv
- Adjustable zero reference: -10 dBv to +8 dBv (rear panel adjustment)

The TS1 Rack Mount Version

The TS1 is also available in a TS1RMX rack mount version, featuring electronically balanced, isolated input and output XLRs mounted on both front and rear panels, with an input impedance of 100k ohms.

The meter range is -70 dBv to +24 dBv ref: (0.775V), and the output level is -60 dBv to +24 dBv ref: (0.775V).

View the entire line of Goldline Products at:
www.gold-line.com