Range switches are used to enter the set level mode, and then to select the measurement range sensitivity. Mode switch selects auto-nulling at 1% or less to speed THD measurements. Frequency fine control is used during manual distortion measurements. Frequency range vernier nulls fundamental frequency component during THD measurements. Balance coarse/fine controls are used to balance the bridge during distortion measurements.

Function switches select mode for distortion, signal-to-noise ratio or AC volt/millivolt measurement. Input terminals accept up to 100 V rms for level measurements and to 30 V rms for THD or S/N. Set level range switch for more than one third full scale deflection relative to the input signal level for THD and S/N ratio measurements. Set level vernier for full scale set reference 0.35 to 30 V rms. Output for monitoring and characterizing distortion and noise products on an oscilloscope.

Key Specifications

DISTORTION MEASUREMENTS
Ranges
0.1, 0.3, 1, 3, 10, 30, 100% full scale
Automatic Nulling Ranges
0.1%, 0.3% and 1.0% full scale
Minimum Distortion Read
0.01%
Accuracy
Within ±5% full scale
Frequency Range
20 Hz - 20 kHz in 3 ranges
Input Level Range
0.35 - 30 V rms in 4 ranges
Input Impedance
100 kΩ, < 50 pF
Fundamental Frequency Suppression
> 80 dB, 2nd and 3rd harmonic flatness within 0.6 dB
Harmonic Bandwidth
20 Hz - 200 kHz, -1 dB
Residual Distortion
< 0.01%

SIGNAL-TO-NOISE RATIO MEASUREMENTS
Range
0 - 80 dB below reference level
Input Level
0.35 - 30 V rms
Input Impedance
100 kΩ, < 50 pF

LEVEL MEASUREMENTS
Range
0.3 mV - 100 V rms in 12 ranges
Frequency Range
20 Hz - 200 kHz
Minimum Reading
30 µV rms
Accuracy
±5% full scale
Input Impedance
1 MΩ, < 50 pF

FILTER
High-Pass
-3 dB point at 400 Hz, 12 dB/octave

MONITOR OUTPUT
Output Voltage
1 V rms at full scale
Output Impedance
1 kΩ

POWER REQUIREMENTS
100, 120, 220, 240 V ac ± 10%
50/60 Hz, 10 VA

Operating Temperature
0 - 40°C

PHYSICAL
Size (W x H x D)
11¼ x 6 x 9/8 in.
300 x 150 x 250 mm
Weight
9 lbs., 4.2 kg

SUPPLIED ACCESSORY
Dual Banana Plug to Alligator Cable