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Semiconductor Noise Analyzer Model 5173



Features ~~~

Noise measured at 10, 100, 1K, 10K, and 100KHz. I_c/I_d from 3 μ a to 30 ma. V_{ce}/V_{ds} to 60 volts. Measure bipolar and field-effect transistors: Single, dual and quad operation amplifiers. Popcorn noise monitor output.

Highlights ~~~

Quan-Tech's designed the totally new model 5173 Semiconductor Noise Analyzer. This instrument combines the best features of the transistor/FET (model 2173), integrated circuit (model 2283), and noise filter (model 2181) which have been industry standards for years, plus new innovations into one compact unit. The advantages of the model 5173 over the old standbys are highlighted below.

<i>Faster Measurement</i>	A unique <i>time variable integration</i> of the filtered noise signals is 5 to 10 times more rapid than before.
<i>Improved Measurement Stability</i>	The <i>time variable integration</i> gives less reading deviation of the random signals. Only 1/4 dB standard deviation for the 10Hz and 100Hz measurements in a few seconds.
<i>3 1/2 Digit Readouts</i>	Noise voltage, applied d.c. voltage and current, and Gm.
<i>Auto-ranging of Noise Levels</i>	Selects proper readout level in approximately two seconds. (An override is provided for special tests.
<i>Auto-ranging of Drain Current Range</i>	Selects proper current range for I_{dss} measurements.
<i>Gm Display</i>	Measures transconductance of device under test.

<i>Plug-in Test Sockets</i>	Interchangeable test sockets for different device packages: Transistor, FET and IC.
<i>Compact Design</i>	Main frame is 16" wide by 7" high by 11" deep with controls and readouts, plus a low profile sloping panel remote test station.
<i>IC Op Amp Select</i>	Pushbutton select for amplifier #1, #2, #3, or #4. Simplifies single, dual and quad Op Amp testing.
<i>Out-of-Range Indicator</i>	Noise reading, Gm, and current out-of-range conditions are indicated (opens, shorts, etc.).
<i>Popcorn Noise</i>	Rear output jack for popcorn noise monitoring.
<i>Outputs for Bus</i>	Analog voltages brought out for bus interface.

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