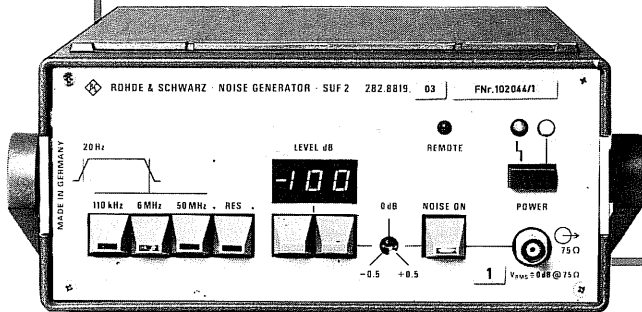


SUF 2

Noise Generator SUF 2 ♦ 20 Hz to 50 MHz



- General-purpose generator for white, pink, triangular and audio-spectrum noise
- Output level 1 V into 75 Ω
- Easy to operate; remote-control option

AccuSource
Electronics
Your Source for Quality Pre-Owned Electronic Test Equipment

IEC 625 Bus

The basic version of the **Noise Generator SUF 2** delivers a noise spectrum with a constant mean energy content which is uniformly distributed over all frequencies (white noise). A variety of options permits the SUF 2 to be adapted without difficulty for virtually all applications in audio and video noise-voltage and distortion measurements (including digital systems); it can be remote-controlled for use in automatic test systems.

Output signals, weighting filters, options

- White noise 20 Hz to 110 kHz/6 MHz/50 MHz (switch-selected)
- Pink noise 20 Hz to 16 kHz (option); spectral components decreasing by 3 dB/octave
- Triangular noise 20 Hz to 6 MHz (option)
- Weighting filter in accordance with CCITT Rec. G.227 (option for simulating telephony signal)
- Weighting filter in accordance with CCIR Rec. 559 (option for simulating an LF/MF/HF signal)
- Weighting filter in accordance with CCIR Rec. 571 (option for simulating a 15-kHz program signal). Other filters are available on request
- Program option in accordance with CCIR Rec. 571
- Bus interface (optional) in accordance with IEC 625-1 (IEEE 488)

Uses (see examples)

Radio engineering: Measurement of crosstalk due to non-linearity, and intermodulation, using the noise to mimic a sound-program signal.

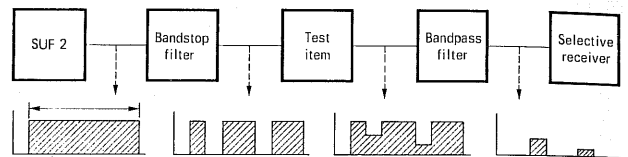
Video engineering: Measurement of interference effects on all the components of transmission systems.

Architectural acoustics: Using a noise signal – because it is similar to speech/music – for the measurement offers advantages over the fixed-frequency test methods.

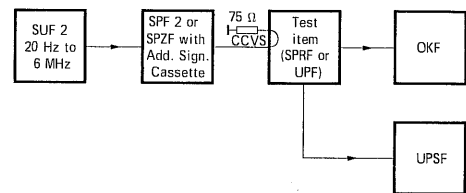
Frequency response measurement: Pink noise permits rapid and repeatable measurements.

Control engineering: Simulation of noise sources in system control and general control circuits.

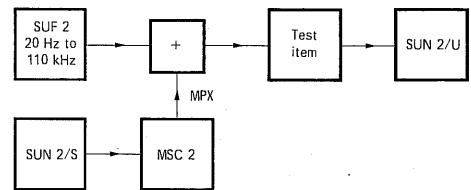
Research: Analysis of stochastic processes.



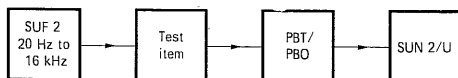
Harmonic distortion measurement in a crowded frequency band with simulated gaps



Measurement of noise rejection in video circuitry (amplifiers, sync separators, clamping circuits, test equipment)



Measurements on stereo systems and analog frequency-multiplex and telephony transmission systems (60 to 108 kHz, international)



Rapid AF frequency response measurement with pink noise using one-third-octave or octave filter and level meter

Specifications

Frequency range	20 Hz to 50 MHz
Output level (white noise)	≤1 V _{rms} into 75 Ω (BNC); 0.775/0.7 V, link-selected
Frequency response flatness	≤±0.5 dB
Bandwidths, options	see text
Level setting and accuracy	1-dB steps, ±0.5 dB continuously
with 20 Hz to 50 MHz bandwidth	0 to -80 dB ±0.5 dB
with other bandwidths	0 to -100 dB ±0.5 dB
Remote control	attenuation: in BCD code bandwidths and filter options: 2-bit binary code
AC supply	110/115/220/235 V ±10% (20 VA)
Dimensions (without stand), weight	210 mm×110 mm×347 mm, 4 kg

Ordering information

Order designation ▶ Noise Generator SUF 2
282.8819.03

Plug-in options

Controllers (one only):		
IEC-625-bus Interface	SUF 2-Z1	282.9915.00
CCIR Rec. 571 Program	SUF 2-Z6	282.9673.00
Filters (one only):		
Triangular Noise	SUF 2-Z2	282.9715.00
Pink Noise	SUF 2-Z3	282.9815.00
CCIR Rec. 559 – Filter	SUF 2-Z4	282.9615.00
CCIR Rec. 571 Filter	SUF 2-Z5	282.9644.00
CCIR Rec. 571 Program	SUF 2-Z6	282.9673.00
CCITT Rec. G. 227 Filter	SUF 2-Z7	282.8860.00