

CEL-513 Pink Noise Generator

Introduction

The CEL-513 is a battery operated noise generator that can be used for the measurement of reverberation times within rooms or transmission loss through partitions.

It fulfils all of the requirements for measurements that need a wide range of frequencies to be produced.

The CEL-513 Pink Noise Generator is a light weight portable unit that can be used for the assessment and measurement of noise levels transmitted through ceilings when carrying out tests on building elements.

It produces a controllable wide band noise signal that can be fed to an amplifier and loudspeaker system such as the omni-directional CEL-90309/90310 or other suitable systems.

The noise generator can be connected directly to the CEL-5X3 analyser by means of the standard cable provided with it or by using a wireless remote control interface without the need for a connecting cable.

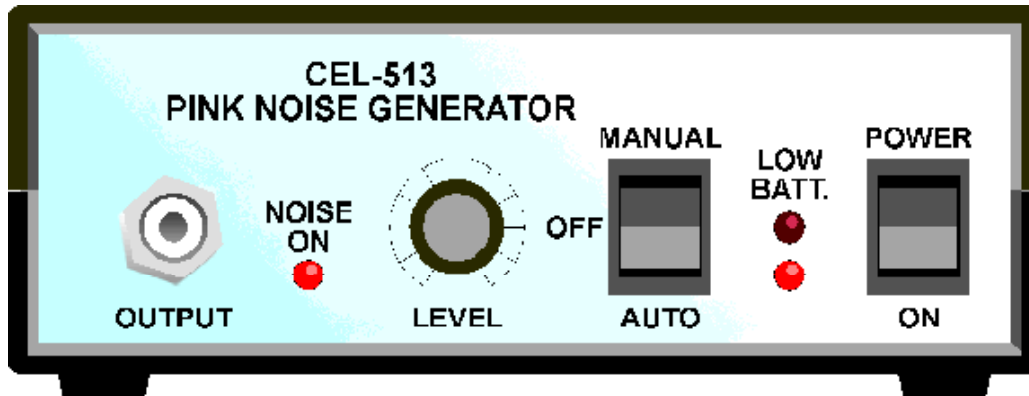
The CEL-553/573/593 Real Time Analyser when fitted with the Building Acoustics application firmware can automatically control the CEL-513.

This option allows for up to 20 recordings of the reverberation time to be made in a room with the analyser switching the pink noise generator on and off to measure the noise decay curves in all bands simultaneously.

Transmission loss measurements can be easily measured at up to 20 positions in a room across the complete audio frequency range.

Key benefits

- Broad band pink noise output over 20 Hz to 20 kHz \pm 0.5 dB
- Variable output to amplifier, can be used for transmission loss and reverberation time measurements
- Battery power for portability
- Control cable from CEL-5X3 Analyser and CEL-502 Interface included
- Remote control possible from CEL-5X3 series real time analyser
- Remote control of output switching,
- Uses CEL-504/514 wireless Interface modules fitted to CEL-500 analyser



TECHNICAL SPECIFICATIONS

For the CEL-513 Pink Noise Generator

Source	39 stage digital random sequence generator having repetition rate > 4 hours
Frequency response	20 Hz to 20 kHz \pm 0.5 dB
High pass roll off	100 kHz -3 dB down
Output level	>0.5 V rms. (pink) via 40 dB potentiometer at BNC connector
Control circuit	Single pole change over operated by CMOS logic pulse. Contacts rated at 3 W (0.25 A, 50 V)
Noise repetition time	>60 minutes
Power supply	2 off 9 V radio batteries 6F22 (PP3)
Overall size	153 x 191 x 56 mm (excluding connectors)
Weight	0.62 kg

ORDERING INFORMATION

CEL-513	Pink Noise Generator with C6660/5 (15 ft) control cable from CEL-5X3 RTA via CEL-502 interface
C6660/X	Remote control cable from CEL-5X3 analyser where X is length in m (5, 25, 50 std.)
C6607/2	Output cable from noise generator to audio power amplifier 6 ft (2 m)
CEL-504/Kit	Wireless remote control option, transmitter and receiver (specify UK or European frequency)
CEL-5X3UPR	Firmware upgrade option to add Building Acoustics to CEL-553/573 or 593 meters