

XS/N and XS/232 Programmable Signal Generators (700015)



XS/N and XS/232 come as a part of the automated systems intended for detection of the eavesdropping devices. The main objective of the generators is neutralization of the radio-microphones and other devices providing data leakage via radio-channel. XS/N along with the broadband aerials is installed in a controlled room and get connected to I²C of the system. Upon revealing a source of unauthorized radiation its carrier frequency is measured and stored by the control program. Then the generator placed in this room starts operating automatically or under operator's command. The output frequency of the generator gets equaled to the carrier frequency of the determined source. As a result, a signal with pseudonoise modulation, emitted by the generator, fully blocks the possibility of receiving and demodulating the information signal of such source at a distant spot of pick-up.

Software of the XS turbo-series systems performs all the appropriate functions on generator running including selection of the generator with an address required, oscillation frequency setting, 'on/off' position of the generator.

The generators come in a crashworthy plastic case of Ultramas type (Germany). Its front panel is equipped with lighting power switch. Output BNC connector (50 Ohm) intended for mating aerial or equipment under check, 9-contact connector of interface connecting cable and mains cable connector are on the back panel.

The XS/N generator comes complete with D-220 disconical broadband aerial.

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Specifications of XS/N and XS/232

Frequency range, MHz	89-1798
Output power on 50 Ohm load (minimum value, modulation is switched off), dBm	
· 100-400 MHz	30
· 400-800 MHz	28
· 900-1100 MHz	25
· 1100-1800 MHz	23
Tuning step of synthesizer, kHz	
· 89-890 kHz	62.5
· 890-1800 kHz	125
Error of frequency settability, kHz	10
Width of signal spectrum (- 6 dB), kHz	100
Modulation type	PAM
Clock frequency of pseudo-random sequence, kHz	110
Repetition rate of pseudo-random sequence, Hz	210
Mains power consumption, W	4
Frequency setting time, ms	300

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