

ST 301 "SPIDER"



Wire lines analyzer is designed to detect and locate eavesdropping devices, galvanically connected to power and low-current wire lines. ST 301 "Spider" uses passive and active modes of operation to detect enabled, switched off, or faulty eavesdropping devices.

Modes of operation:

1. LOW FREQUENCY AMPLIFIER (LFA)
2. WIRE RECEIVER (WR)
3. NON-LINEAR JUNCTION DETECTOR (NLJD)
4. REFLECTOMETER (REF)

Features:

- Detection and the analysis of signals cable (dynamic and electret) microphones in low-current cables
- Activation of electret cable microphones by giving to the cable of bias voltage for their detection
- Detection of signals of the eavesdropping devices transferring information on power mains and low-current cables in frequency range of 100 kHz - 180 MHz
- Detection of unauthorized galvanic connections to the cables using a NLJD and the REF
- Measurement of AC and DC voltage in the low-current cables

Technical specifications:

Low frequency amplifier (LFA)

Frequency range, Hz	20 - 25000
Input resistance, kOhm	200
Adjustment range of gain, dB	0 - 60
Spectral density of noise voltage, nV/Hz	6

Wired Receiver (WR):

Frequency range, MHz	0.1 - 180
Time of scanning of all range, sec	0.3 - 1
Minimum level of detected signal in AUTOMATED mode, dBm	-60
Dynamic range, dB	50

Non-linear junction detector (NLJD):

Level (amplitude) of the probing signal, V	±14
Frequency of the probing signal, Hz	60
Minimum detectable level of non-linear distortion, %	0.1

Reflectometer (REF)

Range of distances, m	3 - 150
Error of measurements, m	±0,6
The ability to work on cables under voltage	no