

# RANDOM SEQUENCE HARDWARE GENERATOR SGCL-1 MB

The unit is designed for random binary sequence generation to be used in cryptographic devices and applications (cryptographic data generation stations, ciphering stations, information cryptographic protection devices) processing information legally classified up to TOP SECRET clearance level inclusive.



| Testy       | Statyst. dla 1 odc. | Klasa | Statystyki dla próby | Klasa | Wartości Klas. po N odc. |
|-------------|---------------------|-------|----------------------|-------|--------------------------|
| Czystość    | 0,744               | A     | 0,101                | A     | A 524 77,365 80,0        |
| Następnosť  | 1,002               | A     | 0,149                | A     | B 79 11,165 10,0         |
| Poker_2     | 2,907               | A     | 4,994                | B     | C 36 5,365 5,0           |
| Serii_10/22 | 41,400              | A     | 34,420               | A     | D 16 2,385 2,5           |
| Poker_8     | 276,026             | B     | 258,577              | A     | F 5 0,745 0,5            |
| Poker_16    | 66089,250           | C     | 66054,646            | C     | G 8 1,195 0,4            |
| Autokor_9   | ABAAAAA             | A     | AAAAAADB             | A     | H 0 0,005 0,1            |
| 1/2 p[0]    | 0,000148932         |       | 0,000005597          |       | I 6 54,455 95            |

## MAIN FEATURES AND PARAMETERS

- mathematical proof of truly random binary sequence generation
- random sequence generation with the speed of 1 MByte/s = 8 Mbit/s
- easy to use – Ability to connect to IBM PC or other similar device via USB 2.0 FS interface and any application for file reception operated under Windows or Linux
- dimensions: 75 mm x 40 mm x 25 mm, weight: < 0.1 kg, powered from USB interface (< 0.5 W)
- generated sequences auto-testing and raising an alarm in case a sequence do not fulfill requirements – in each sample all known statistical tests are fulfilled
- expected Polish Home Security Authorities certification according to *Classified Information Protection Act* within the scope of cryptographic security and information protection against electromagnetic penetration

## APPLICATIONS

Cryptographic information protection systems, scientific applications (statistics, simulations, etc.).

