

GRETAG

SPEECH SCRAMBLER SC 101



The unique GRETAG Speech Scrambler SC 101 has been designed to protect your voice messages transmitted over radio or regular telephone channels from unauthorized listeners. The GRETAG SC 101 will be used by military, police or other government agencies.

Unauthorized and specially trained persons are not capable to understand the confidential information even when repeatedly listening to a recorded tape. Cracking the message with computers and other sophisticated methods is made very difficult due to the fast and continuous change of scrambling parameters.

The scrambled message may be transmitted over regular telephone or radio circuits since the bandwidth of the transmitted signal is not increased by the scrambling process.

On the other hand the intelligibility bandwidth of the original clear signal is not reduced by the scrambling and is equivalent to the bandwidth of a typical telephone channel. Operating the SC 101 is as easy as operating an ordinary radio hand-set.

High reliability, easy trouble shooting and state-of-the-art technology are only some of the outstanding features of the GRETAG SC 101.

SPECIFICATION

Overall dimensions:	200 mm (8.6") wide 70 mm (2.8") high 285 mm (11.2") deep
Weight:	3 kg (6.7lb)
Temperature range:	Operating - 10 ^o C to + 50 ^o C Storage - 40 ^o C to + 75 ^o C
Power:	12 to 16 V DC 3,5 W ready to receive (stand by) 10 W operating (receive or transmit)
Principle:	Time - and frequency range scrambling with dynamically changing parameters, Interval: ≤ 100 ms
Period of key generator:	10 ¹⁰ intervals
Key setting:	8 numbers (1 to 8), determined by the user, to be typed in prior to operation
Key diversity:	8 ⁸ = 16'777'216
Auxiliary key:	Automatically generated after each change of transmission direction; which guarantees a statistical change of the key stream
Bandwidth:	300 Hz to 2800 Hz
Distortion:	≤ 8 %
Carrier suppression:	≥ 55 dB
Modes of operation:	Halfduplex (clear and private)
Controls:	Mode selector: - clear - set key - private multistation - private two-station Keyboard for key setting and RESET Power switch

Specifications subject to change
Patents pending