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TECHNOLOGIES UNDER CONTROL

RADIO COMMUNICATION
AND DATA EXCHANGE SYSTEMS

EXCITER-RECEIVER
WITH RKS-8000PS CONTROL BOX

RKS-8000-WO-E

- NATO compliant
- Automatic link establishment
- Fixed or mobile design

The exciter-receiver is a modern communication device being a part of the RKS-8000-B (150W) and RKS-8000-D (400W) transceiver sets.

RKS-8000WO-E can be used as an individual HF receiver.

RKS-8000WO-E provides the 2 and 3 generation ALE standard compliant with MIL-STD-188-141B App. A and STANAG 4538.

RKS-8000WO-E is fully controlled by the RS-232 interface or the Ethernet.

The robust design and construction guarantee high performance and operational reliability, as well as internal software updates.

RKS-8000WO-E co-operates with the RKS-8000PS control box that provides local control and visualization of all exciter (transceiver) parameters. The RKS-8000PS control box is mounted directly to the exciter or separately with an up to 50mb control cable.

The RKS-8000WO-E co-operates with the RKS-8000 PW remote control unit that ensures remote control and visualization of all exciter (transceiver) parameters. The RKS-8000PW remote control unit can be linked with the RKS transceiver through LAN and/or communications line.

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TECHNOLOGIES UNDER CONTROL

EXCITER-RECEIVER WITH RKS-8000PS CONTROL BOX

RKS-8000-W0-E

GENERAL	
Frequency range:	1.5 to 30 MHz
Modes of Operation:	Simplex, halfduplex
Frequency Stability:	0.5 x 10^{-7}
Programmable Channels:	399
Modulations:	A1A, A3E, F1B, F3E, J3E, H3E, B8E
Frequency Step:	100, 10, or 1Hz
Remote Control:	RS-232, RS-422, RS-423 and Ethernet
Power Supply:	24V DC

ENVIRONEMNTAL SPECIFICATIONS	
Environmental Requirements:	N.8 and M.1.1 UZ-IIA pos. NO-06-A103 (MIL-STD-810E)
EMC Compatibility:	NO-06-A200 (MIL-STD-461D)
Operating Temperature:	range -20 to +55°C (-40°C to +55°C for antenna coupler)
Relative Humidity:	98% at +40°C

RECEIVER	
Sensitivity:	SSB: 0,5µV for 10dB SINAD
Frequency Band:	range 300 to 3050 Hz in 5 steps
AF Output:	AF loudspeaker – 1W, 2 x AF output, 0 dBm / 600Ω

TRANSMITTER	
Output Power On All Modes:	100mW
Carrier and Undesired Sideband Suppression:	40dB (ref. to PEP)
Intermodulation Products:	>24dBc
Harmonic:	>45dBc

ALE SPECIFICATION	
2G Compatibility:	MIL-STD-188-141B App. A
3G Compatibility:	STANAG 4538

IMPEDANCE	
Output Impedance of Amplifier:	50Ω

AVAILABLE MODEM WAVEFORM	
(max. data rate):	STANAG 4285 (3600bps), STANAG 4529 (1800bps), STANAG 4415 (75bps), STANAG 4539 (12800bps), MIL-STD-188-110B (High Data Rate 12800bps, ISB 19200bps), FSK (600bps)

DIMENSIONS	
W×H×D in mm:	172×68×140
Weight in kg:	5