RF13 - Portable transceiver set

Type designation: **RF13**
NSN: **5820160020900**
PN (RN): **2000.000.04**
KČN: **006160020214**

Set consists of RF13 transceiver (with built-in digital scrambler) and accessories. The portable transceiver set is used for phonic communication or data transmission in 30 MHz to 88 MHz frequency range. It also features voice encryption mode, selective communication, broadcasting of short encoded messages, up to 9 preset channels, automatic preset channels scanning, and controlling of most functions from the handset. The supplied types of antennas and adjustable output power make it suitable for use in many situations. Both rechargeable battery packs secure a standard round-the-clock operation. All components of the set are placed in a bag. The set is carried and operated by one person. For more details on RF13 transceiver and other set components see relevant pages of this website.

Technical parameters

Frequency range	30.000 MHz to 87.975 MHz
Channel spacing	25 kHz
Number of channels	2320
Channel selection	from transceiver keyboard
Operating modes	simplex or semiduplex telephony or data transmission to 16 kbit/s
Voice encryption	through internal digital scrambler
Modulation	FM, max. deviation 5.6 kHz
RF power output	0.2 W reduced (± 2 dB) 5 W nominal (+1.5 dB/-1 dB
Receiver sensitivity	better than 0.5 µV at 12 dB SINAD

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Effectively transmitted frequencies range	
for F3 operation	300 Hz to 3400 Hz
for data transmission	150 Hz to 9000 Hz
AF power output	controllable, min. 200 mW/ 4 W
Nominal power supply voltage	12 V
Power supply voltage range	10 V to 15 V
Operation time from RF13.1 battery pack	minimum 14 hours at 1 : 1 : 10 Tx/Rx/Standby ratio and nominal output power
Current consumption	max. 2 A in transmission mode at nominal output power
	max. 0.6 A in transmission mode at reduced output power
	max. 0.2 A in reception mode
	max. 0.12 A in standby mode
Operating temperature	-30 °C to +60 °C
Transceiver weight	max. 2.7 kg (no battery pack or accessories)
Battery pack weight	max. 2.5 kg
Dimensions of transceiver with battery pack	W 205 mm x H 83 mm x D 252 mm
Weight of complete set in bag, including a spare battery pack	max. 11.5 kg
Dimensions of complete set in bag	250 mm x 380 mm x 450 mm
Average range at nominal output power in medium-wooded and medium-undulated terrain:	
- with 0.5 m short tape antenna	1 km
- with 1.5 m long tape antenna	8 km
- with hang-up antenna	15 km
- with 30 m long-wire antenna	15 km

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Documentation

RF13 operating instructions	2000.010.02
RF13 brief operating instructions	2000.011.02

Components

Type designation	**PN (RN)**	**Name**
RF13	2000.100.04	Transceiver
RF13.1	7000.100.02	Rechargeable battery pack
AS1301	2038.100.01	Short tape antenna 0.5 m
AL13	2039.100.01	Long tape antenna 1.5 m
RF13.2	2022.100.02	Handset with control
	2000.116.01	Manpack bag
	2000.118.01	Light fabric cover
	2000.117.01	Carrying straps
	6000001104	Extension cable
	2000.110.03	Spare parts set
RF13.8	2036.100.11	Hang-up antenna

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