RF13 - Transceiver

Type designation: **RF13**
NSN: **5820160015663**
PN (RN): **2000.100.04**

The RF13 transceiver **with built-in digital scrambler** is a portable VHF transceiver, which is used for tactical communication. It is carried and operated by one person. The set includes the transceiver and accessories for common use. These accessories can be carried in a bag together with the transceiver.

Operating features

The transceiver set in the bag can be transported by train, car, in tracked vehicles and by air. The phonic operation of this transceiver in the frequency range 30.000 MHz to 87.975 MHz is interoperable with all VHF transceivers currently in use in modern armed forces worldwide.

NOTE

Other operating features include: whisper operation with increased microphone sensitivity, normal or subtone (150 Hz) inhibitable squelch, 9 preset channels storage, programming using fill gun or mutual programming of stations (cloning), priority scanning of 9 preset channels, selective calling, FLASH - 3 digits code quick transmission, switch for instant erasure of memory in case of emergency, clear override operation, display backlight, voice encryption mode with individual choice of code number for each channel (2000.100.04 transceiver only), built-in test equipment (BITE). The electronic moduls - power supply, receiver, receiver synthesizer, transmitter synthesizer, transmitter, peripheral circuits, P control, AF and mother board - are mounted in a light alloy waterproof case. The transceiver´s color is olive green (other hues can be agreed upon). The VHF transceiver is the basic module of 30 MHz to 88 MHz frequency range communication systems, including mobile sets RF1305, RF1325 and RF1350.

Technical parameters

Frequency range	30.000 MHz to 87.975 MHz
Channel spacing	25 kHz
Number of channels	2320
Channel selection	digital, from transceiver keyboard

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Operating modes	simplex or semiduplex telephony data transmission channel max. 16 kbit/s
Modulation	FM, max. deviation 5.6 kHz
RF power output	0.2 W reduced, 5 W nominal
Receiver sensitivity	better than 0.5 µV at 12 dB SINAD
AF output power	controllable, min. 200 mW/4 Ω
Power supply voltage	12 V
Power supply voltage range	10 V to 15 V
Operating time from RF13.1	min. 14 hours at 1 : 1 : 10 Tx/Rx/ Standby ratio and nominal output power
Operating temperatures	-30 °C to +60 °C
Dimensions	W 204.5 mm x H 82.5 mm x D 174.5 mm
Weight	max. 2.7 kg

Documentation

RF13 operating instructions	2000.010.02
RF13 brief operating instructions	2000.011.02

Set

Type designation	**PN (RN)**	**Name**
RF13	2000.000.04	Portable transceiver set

Accesories

Type designation	**PN (RN)**	**Name**
RF13.1	7000.100.02	Rechargeable battery pack
AS1301	2038.100.01	Short tape antenna 0.5 m

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AL13	2039.100.01	Long tape antenna 1.5 m
RF13.8	2036.100.11	Hang-up antenna
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
RF13.13	7000.100.22	Rechargeable battery pack
SZ13.2	7026.000.02	Power supply set
RN13.1	7001.000.12	Quick battery charger set
NS13	7003.000.02	Standard battery charger set
NK13	7002.000.02	Trickle charger set
NU13	7024.000.02	Universal charger set
AL13.1	2039.100.02	Whip antenna 2 m
PD13	2036.100.10	Long-wire antenna
RF13.3	2022.100.52	Handset
	2026.700.01	Handset holder
PK20	2320.000.02	Fill gun set
	1050.618.01	Cloning cable
		RF headsets