

# RF13 - Portable transceiver set

Type designation: **RF13**

NSN: **5820160020900**

PN (RN): **2000.000.02**

KČN: **0061600202014**

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

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

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

# Documentation

<b>RF13 operating instructions</b>	2000.010.02
<b>RF13 brief operating instructions</b>	2000.011.02

# Components

<b>Type designation</b>	<b>PN (RN)</b>	<b>Name</b>
RF13	2000.100.02	Transceiver
RF13.1	7000.100.01	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	2022.100.01	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