

# AT RF13 Portable VHF Transceiver Package

## AT RF13 Portable VHF Transceiver Package



Package consists of AT RF13 transceiver and accessories. The portable Transceiver package 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 channel 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. A components of the package are placed in a bag. The package is carried and operated by one person.

## Operating features

- ✓ whisper operation with increased microphone sensitivity
- ✓ squelch - inhabitable, normal or tone (150 Hz)
- ✓ 9 preset channels storage
- ✓ pre-set channels priority scanning
- ✓ selective calling
- ✓ FLASH - 3 digits code quick transmission
- ✓ in case of emergency, instant erasure of data stored in memory
- ✓ selection of access and operation level
- ✓ channel programming from PK13 fill gun, or from another transceiver
- ✓ controlling of transceiver from handset
- ✓ pre-set channels selection
- ✓ group and general call
- ✓ group and individual users selection

- ✓ encrypted speech with individual codes of channels
- ✓ telephone line extension

### 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 ( $\pm 2$ dB)
<a href="#">AT Communication ©</a>	5 W nominal (+1.5 dB/-1 dB)
Receiver sensitivity	better than 0.5 $\mu$ V at 12 dB SINAD
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

### Components

- ✓ Transceiver AT RF13
- ✓ Rechargeable battery pack AT RF13.1
- ✓ Rechargeable battery pack AT RF13.1
- ✓ Short tape antenna 0.5 m AT AS1301
- ✓ Long tape antenna 1.5 m AT AL13
- ✓ Hang-up antenna AT RF13.8
- ✓ Handset with control AT RF13.2
- ✓ Manpack bag
- ✓ Light fabric cover
- ✓ Carrying straps
- ✓ Carrying straps
- ✓ Extension cable
- ✓ Spare parts set

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