

RF13

VHF TRANSCEIVER



- **Output power 0.2 W, 5 W, 50 W**
- **Frequency range 30 MHz to 87.975 MHz**
- **Modular design - versatility**
- **High climatic and mechanical ruggedness**
- **Keypad control from handset or transceiver front panel**
- **Flash mode**
- **Selective calling (up to 99 users)**
- **Clear override mode**
- **Semiduplex communications**
- **Built-in voice encryption**
- **Rebroadcast**
- **Nine preset channels**
- **Whisper mode (increased microphone sensitivity)**
- **Compatibility with most transceivers in use around the world**

- **Instantaneous erasure of preprogrammed data in case of imminent danger**
- **Standard or 150 Hz subtone squelch**
- **Remote control**
- **Scanning**
- **POST (Power-On Self Test)**
- **Fill gun programming**

Additional features of mobile sets:

- **Data transmission**
- **Loud monitoring through built-in loudspeaker**
- **Wide range of antennas available**

RF13

Integrated VHF communications system based on RF13 portable radio transceiver has been developed to offer solution to all issues of tactical communications.

All elements of the system are available from one supplier and producer MESIT defence.

Besides the production and delivery, the Company assures technical support from the very beginning by optimization of the client's system configuration, through operators and servicemen training courses, up to maintenance services.



RF1350

RF1350 mobile systems are VHF communications devices with output power of 50 W.

Completed out of standard RF13 system elements they are determined to be built-in into practically any military vehicle.



Technical parameters

RF13 TRANSCEIVER

General data

Frequency range 30.000 MHz to 87.975 MHz
Channel spacing 25 kHz
Number of channels 2320
Effective audio frequency range
 F3 mode 300 Hz to 3 400 Hz
 data transmission 150 Hz to 9 000 Hz
Channel selection from handset or transceiver keypad
Transmission modes simplex or semiduplex telephony
 data transmission
Voice encryption internal digital encryption

Transmitter

Power output nominal 5 W (+1.5 dB/-1 dB)
 reduced 0.2 W (± 2 dB)
Modulation F3E
Harmonics suppression -60 dB

Receiver

Sensitivity better than $0.5 \mu V$ at 12 dB SINAD
AF output power adjustable, min. 200 mW on 4Ω load
Squelch standard or 150 Hz subtone

Power supply

Nominal supply voltage 12 V
Supply voltage range 10 V to 15 V
Operation time minimum 14 hours
 at Tx/Rx/Standby ratio (1 : 1 : 10) and nominal output power

Other specifications

Service temperatures -30 °C to +60 °C
Transceiver weight max. 2.7 kg
 (without batteries and accessories)
Battery pack weight max. 2.5 kg
Transceiver dimensions
with battery pack attached (83 x 205 x 252) mm
Complete set weight in carrying
bag with spare battery pack less than 10.9 kg

Complete set dimensions

in carrying bag (250 x 380 x 450) mm

Immersion up to 1 m

RF1350 TRANSCEIVERS

Transmitter

RF output power

reduced 0.2 W
 nominal 5 W
 increased 50 W

Internal modem

Personal computer interface RS232

Data transmission rate 16 kbps

Data modulation GMSK

Power supply

Supply voltage vehicle mains 27 V

Supply voltage range 18 V to 33 V

Continuous transmission period

normal conditions unlimited
 at +50 °C 30 min.

Current consumption (27 V):

reception max. 0.5 A

transmission 0.2 W max. 1 A

transmission 5 W max. 1.3 A

transmission 50 W max. 8 A

Other specifications

Operating temperatures -30 °C to +60 °C

Weight max. 15 kg

Dimensions (428 x 224 x 165) mm

ACCESSORIES

Standard battery charger, quick battery charger, trickle charger, mobile quick charger, fill gun, accessory for remote control and rebroadcast, data modem, loudspeaker box, headsets, wide range of antennas.

