RF13
VHF TRANSCIEVER

• 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
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 /V at 12 dB SINAD
AF output power ........................................ adjustable, min. 200 mW on 4 Ω 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.