# RF20 - not valid

Type designation: **RF20**
PN (RN): **2300.100.10**

N/A

## Oparating features

## Technical parameters

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|---|---|
| **Frequency range** | 25.000 MHz to 145.9875 MHz |
| **Nominal input/output impedance** | 50 Ω |
| **Frequency ranges** | |
| **HF** | 25.000 MHz to 29.975 MHz |
| **VHF I** | 30.000 MHz to 108.000 MHz |
| **VHF II** | 117.975 MHz to 140.000 MHz |
| **VHF III** | 140.025 MHz to 145.9875 MHz |
| **Modulation type** | |
| **HF** | FM |
| **VHF I** | FM |
| **VHF II** | AM |
| **VHF III** | FM |
| **Channel spacing** | |
| **HF band** | 25 kHz |
| **VHF I band** | 25 kHz; 12.5 kHz; 6.25 kHz |
| **VHF II band** | 25 kHz; 8.33 kHz |
| **VHF III band** | 25 kHz; 12.5 kHz |

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|---|---|
| **Number of operation channels at 25 kHz channel spacing** | |
| **HF** | 200 |
| **VHF I** | 3121 |
| **VHF II** | 882 |
| **VHF III** | 239 |
| **Preset channels** | 10 |
| **Number of channels monitored in all special operation modes** | 3 (two adjustable, third fixed at 121.500 MHz) |
| **Max. number of programmable nets** | 6 |
| **Nominal supply voltage** | 7.2 V |
| **Limit supply voltage** | 6.5 V to 9.5 V |
| **Frequency band with special operation modes** | 30.000 MHz to 87.975 MHz |
| **Voice operation F3E** | according to STANAG 4204 |
| **Types of special operation modes** | |
| **FH** | secure frequency hopping |
| **DFF** | secure digital fixed frequency |
| **FCS** | secure free channel search |
| **MIX** | secure mixed operation FH and FCS |
| **IFF** | secure iso-fixed frequency |
| **Time to first synchronization** | max. 5 s |
| **Synchronization hold with transceiver off and battery pack connected** | min. 48 hours |
| **transceiver synchronization hold with battery pack disconnected** | min. 50 s |
| **Transceiver current consumption** | |
| **transmission (nominal power)** | 1.6 A |
| **transmission (reduced power)** | 0.65 A |
| **transmission (increased power)** | 3.2 A |
| **reception** | 0.2 A |
| **stand-by** | 0.18 A |

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| **Operation time (transmission [2 W] : reception : stand-by = 1 : 1 : 10)** | |
| **with LP1302 battery pack** | min. 15 hours |
| **with LP20 battery pack** | min. 28 hours |
| **TRANSMITTER PARAMETERS** | |
| **Transmitter nominal output for FM** | 2 W |
| **Transmitter nominal output for AM** | 1 W |
| **Transmitter reduced output for FM** | 0.2 W |
| **Transmitter reduced output for AM** | 0.1 W |
| **Transmitter extended output for FM** | 5 W |
| **Harmonics suppression** | min. 40 dB |
| **Spurious suppression at > 25 kHz mistuning** | min. 60 dB |
| **RECEIVER PARAMETERS** | |
| **Sensitivity** | 0.5 µV at 12 dB SINAD |
| **Non-linear distortion factor** | 10 % |
| **Loudspeaker output power** | 200 mW/8 Ω |
| **Audio bandwidth** | |
| **narrow band** | 300 Hz to 3 000 Hz |
| **wide band** | 20 Hz to 11 000 Hz |
| **Mechanical properties and resistance** | |
| **Immersion** | 1 m depth |
| **Operating temperature range** | -40 °C to +70 °C |
| **Dimensions** | |
| **transceiver with battery pack** | W 97 mm x H 217 mm x D 44 mm |
| **LP1302 battery pack** | W 79 mm x H 61 mm x D 44 mm |
| **LP20 battery pack** | W 76 mm x H 95 mm x D 45 mm |
| **Weight** | |
| **transceiver** | max. 0.85 kg |
| **LP1302 battery pack** | max. 0.3 kg |
| **LP20 battery pack** | max. 0.45 kg |

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| **Average ranges in a medium undulated and wooden terrain at nominal power** | |
| **with AS1301 short tape antenna** | 0.8 km |
| **with AL1301 long tape antenna** | 5 km |

# Set

| Type designation | PN (RN) | Name |
|---|---|---|
| RF20 | 2300.000.12 | Souprava ruční EPM radiostanice |
| RF20 | 2300.000.63 | Souprava ruční EPM radiostanice s prvky pro modulární nosný systém (MNS) |

# Accesories

| Type designation | PN (RN) | Name |
|---|---|---|
| LP1302 | 7029.100.02 | Battery pack |
| AS1301 | 2038.100.01 | Short tape antenna 0.5 m |
| AL1301 | 2037.100.01 | Long tape antenna 1.1 m |
| | 6000010032 | Transceiver bag |
| | 6000010033 | Set bag |
| | 7020.116.01 | Battery pack bag |
| LP20 | 7029.100.11, 7029.100.13 | Battery pack |
| PP20 | 7029.100.50 | Battery holder |
| NU1302 | 7027.000.01 | Universal charger set N/A |
| NM1302 | 7028.000.01 | Mobile charger set |
| PC20 | 7046.000.11 | Small mains charger set |
| PD13 | 2036.100.10 | Long-wire antenna |
| RF13.8 | 2036.100.11 | Hang-up antenna |

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|---|---|---|
| AL13 | 2039.100.01 | Long tape antenna 1.5 m |
| RM1301 | 2009.100.01 | Handheld microphone/ speaker |
| RM20 | 2313.100.01 | Handset with control |
| PK20 | 2320.000.02 | Fill gun set |
| GPR23 | 2332.100.01 | GPS receiver for RF20 radio system |
| | 1050.312.23 | GPS receiver cable |
| | 1050.285.01 | Data cable (USB) |
| | 1050.285.02 | Data cable (RS232C) |
| | 2025.500.51 | CD for modem configuration |
| | | RF headsets |

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