

RF20 - not valid

Type designation: **RF20**

PN (RN): **2300.100.10**

N/A

Operating features

Technical parameters

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

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

**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 μ V 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

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)

Accessories

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

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