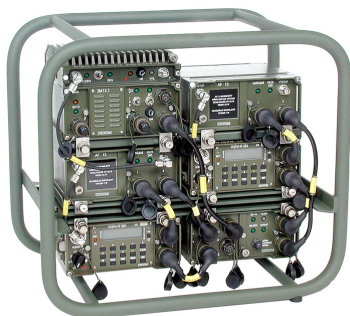


AR13.1 - Automatic rebroadcast station



PN (RN): 2018.100.62

The AR13.1 automatic rebroadcast station, in stationary or mobile assemblies, is designed to automatically rebroadcast signals, increasing operating range of [RF13](#) and RF1301 transceiver radio networks in the entire frequency range and in all operating modes, with RF20 and RF2050 transceivers on fixed frequency in 30.000 MHz to 87.975 MHz frequency range. The AR13.1 station includes ZM13.1 (25 W) or ZV13.1 (50 W) power amplifier. The AR13.1 station designated 2018.100.62 uses ZV13.1 power amplifier.

Technical parameters

Automatic signal rebroadcasting

- Voice operation with 150 Hz pilot frequency, including encrypted voice communication.
- Short coded messages (FLASH).
- Data in MD13.1 radio modem format.
- Phone dialing.

Repeater activation modes

Permanently active.

- Activation command.
- Activation command issued by authorized users (present in the list of end stations stored in the repeater).

Frequency range

30.000 MHz to 87.975
MHz

Input and output impedance

50 Ω

Nominal output of the transmitter

50 W

Minimum frequency separation between receiving and transmitting frequencies

10 %

Direct supply voltage

18 V to 33 V

Current consumption at 27 V supply voltage

max. 9 A

Operating temperatures

-20 °C to +50 °C

Dimensions

W 490 mm x H 430 mm x
D 335 mm

Weight

33 kg

Components

Transceiver	RF13 - (2000.100.04)
Transceiver	RF13 - (2000.100.04)
Power amplifier 50 W (Net)	ZV13.1 - (2011.100.53)
Co-site filter	AF13 - (2028.100.02)
Co-site filter	AF13 - (2028.100.02)

Rebroadcast unit	RJ13 - (2018.200.02)
Frame	(7007.100.60)
Frame	(7007.100.50)
Frame	(7007.100.50)
Connector	(1050.628.01)
Connector	(1050.628.03)
AF cable	(1050.601.07)
AF cable	(1050.601.08)
AF cable	(1050.615.01)
AF cable	(1050.615.02)
AF cable	(1050.616.01)
AF cable	(1050.617.01)
AF cable	(1050.617.02)
RF cable	(1050.401.02)
RF cable	(1050.401.03)
RF cable	(1050.401.04)
Grounding	(1050.993.01)
Grounding	(1050.993.01)
Grounding	(1050.993.05)
Grounding	(1050.993.05)
Grounding	(1050.993.12)
Grounding	(1050.993.16)
Connector nut	(2000.475.01)
Connector nut	(2000.475.01)

Set

Automatic rebroadcast station set AR13.1 - (2018.000.62)

Documentation

AR13.1 operating instructions	2018.010.52
RF13 operating instructions	2000.010.02
RF1325/RF1350 operating instructions	2011.010.02

Optional accessories

Power supply set	SZ13.1 - (7011.000.02)
2.6 m VHF vehicle antenna	(2036.100.23, 2036.100.24)
Groundplane antenna	(2036.100.38)
Discon antenna	(2036.100.68)
Antenna mast	(2036.100.39)
Power supply cable 1.5 m	(2010.902.02)
Power supply cable 3 m	(2010.902.01)
Antenna cable (3 m)	(2011.904.01)
Antenna cable (10 m)	(2011.904.02)
Handset	RF13.3 - (2022.100.52)