AR13.1 - Automatic rebroadcast station

Type designation: **AR13.1**

PN (RN): **2018.100.61**

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 ZV13.1 (50 W) 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

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Operating temperatures	-20 °C to +50 °C
Dimensions	W 490 mm x H 430 mm x D 335 mm
Weight	33 kg

Documentation

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

Set

Type designation	PN (RN)	Name
AR13.1	2018.000.61	Automatic rebroadcast station set

Components

Type designation	PN (RN)	Name
RF13	2000.100.02	Transceiver
ZV13.1	2011.100.51	Power amplifier 50 W (Net)
AF13	2028.100.01	Co-site filter
RJ13	2018.200.01	Rebroadcast unit
	7007.100.60	Frame
	7007.100.50	Frame
	1050.628.01	Connector
	1050.628.03	Connector
	1050.601.07	AF cable
	1050.601.08	AF cable
	1050.615.01	AF cable

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1050.615.02	AF cable
1050.616.01	AF cable
1050.617.01	AF cable
1050.617.02	AF cable
1050.401.02	RF cable
1050.401.03	RF cable
1050.401.04	RF cable
1050.993.01	Grounding
1050.993.05	Grounding
1050.993.12	Grounding
1050.993.16	Grounding
2000.475.01	Connector nut

Accesories

Type designation	PN (RN)	Name
SZ13.1	7011.000.01	Power supply set
	2036.100.23, 2036.100.24	2.6 m VHF vehicle antenna
	2036.100.18	Discon antenna
	2036.100.39	Antenna mast
	2010.902.02	Power supply cable 1.5 m
	2010.902.01	Power supply cable 3 m
	2011.904.01	Antenna cable (3 m)
	2011.904.02	Antenna cable (10 m)
RF13.3	2022.100.51	Handset