

# AR13.1 - Automatic rebroadcast station

Type designation: **AR13.1**

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 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  $\Omega$

### Nominal output of the transmitter

50 W

<b>Minimum frequency separation between receiving and transmitting frequencies</b>	10 %
<b>Direct supply voltage</b>	18 V to 33 V
<b>Current consumption at 27 V supply voltage</b>	max. 9 A
<b>Operating temperatures</b>	-20 °C to +50 °C
<b>Dimensions</b>	W 490 mm x H 430 mm x D 335 mm
<b>Weight</b>	33 kg

## Documentation

<b>AR13.1 operating instructions</b>	2018.010.52
<b>RF13 operating instructions</b>	2000.010.02
<b>RF1350 operating instructions</b>	2011.010.02

## Set

<b>Type designation</b>	<b>PN (RN)</b>	<b>Name</b>
AR13.1	2018.000.62	Automatic rebroadcast station set

## Components

<b>Type designation</b>	<b>PN (RN)</b>	<b>Name</b>
RF13	2000.100.04	Transceiver
ZV13.1	2011.100.53	Power amplifier 50 W (Net)
AF13	2028.100.02	Co-site filter
RJ13	2018.200.02	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
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

## Accessories

Type designation	PN (RN)	Name
SZ13.1	7011.000.02	Power supply set
	2036.100.23, 2036.100.24	2.6 m VHF vehicle antenna
	2036.100.68	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	2022.100.52	Handset
	2036.100.38	Groundplane antenna