CATALOGUE 2016/2

RCD RADIOKOMUNIKACE

TETRAPOL ACCESSORIES

RCD Radiokomunikace spol. s r. o. | U Pošty 26, 533 52 Staré Hradiště – Pardubice | Czech Republic
phone: +420 466 415 755 | **Sales department E-mail: obchod@rcd.cz**

www.rcd.cz

SUCCESSOR TO THE THRONE
OF TELEGRAFIA AND TESLA PARDUBICE
IN THE KINGDOM OF RADIOCOMMUNICATION

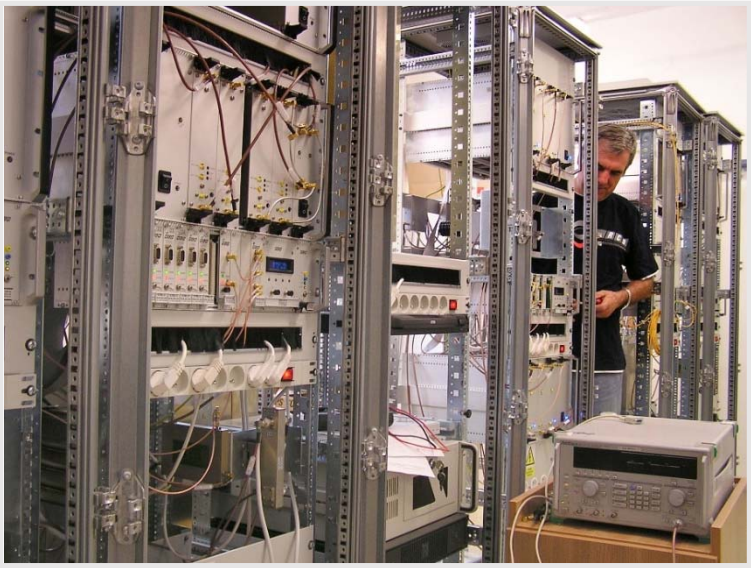
PROVIDER OF ITS OWN RADIO SOLUTION TO:

- ALL ROAD TUNNELS IN THE CZECH REPUBLIC
- ALL STATIONS OF PRAGUE METRO FOR EMERGENCY SERVICES AND MOBILE OPERATORS
- RADIO NETWORKS FOR SPECIAL FORCES OF THE CZECH POLICE
- DEVELOPMENT AND PRODUCTION OF CUSTOMIZED HIGH-FREQUENCY DEVICES
- LOCOMOTIVES IN TERRITORIES OF GERMANY, FRANCE AND THE BENELUX COUNTRIES

Company Profile

Name	RCD Radiokomunikace spol. s r. o.
Address	U Pošty 26, 533 52 Staré Hradiště
Region	Pardubice, Czech Republic
Established	1993
Main Activities	R&D of Radio Equipment and Solutions Production and Turnkey Delivery including Hotline Services 24 hours

Antennas of TETRAPOL Radio System



Road Tunnel Technology Assembling

RCD Radiokomunikace was established in 1993 and through its activities and results continues the long tradition of electronic production in Pardubice area.

RCD Radiokomunikace develops and produces customized high frequency solutions and equipment including antennas, filters, radio repeaters and radio accessories used especially by the Police and Fire Brigade working in emergencies.

RCD Radiokomunikace supplies turnkey radio solutions in underground areas, large buildings, road and railway tunnels and metros. The company is able to respond flexibly to special customer requirements on the 24-hours hotline base using components from its own development and production.

RCD Radiokomunikace is a holder of certificates: EN ISO 9001, EN ISO 14001, BS OHSAS 18001, ISO/IEC 27001. Company is also certified by National Security Authority of the Czech Republic for classification level secret.

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BLUETOOTH DATA INTERFACE TETRAPOL G3

BL 03D

Description

BL 03D bluetooth data interface is designed for wireless data transmission between EADS (MATRA) mobile radio with 3G control box and data terminal equipment (smartphone, tablet, PC).
(It is necessary to adjust BL 03D for using with 2G control box.)

Pairing of data terminal equipment with BL 03D interface is protected by PIN code.

Technical Specification

Type		BL 03D
Power supply	V	5 from mobile radio battery
Power consumption	mA	35
		5 without connection
Range	m	approx. 20
Operating frequency	MHz	2400 ÷ 2480
Max. RF power	dBm	-20 ÷ +14

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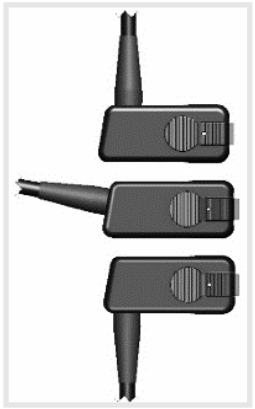
HAND SPEAKER / MIC
FOR TPH 700 TETRAPOL TERMINALS

MR 37 DNS

Rotating clip



Cable outlet from connector

Description

MR 37 DNS hand speaker / mic for TPH700 terminal of TETRAPOL system is equipped with speaker, microphone, PTT button, rotating clip, connector for external earphone connection, optical and acoustic indication of connection in TETRAPOL system. The device is also equipped with digital noise suppressor module which filters signal from microphone and suppresses noises captured by microphone. Speaker mic can be therefore used even in high noisy environments where speaker mic significantly improves call quality compared to conventional microphones.

Optical indication of connection – established connection is indicated by red LED after pressing PTT button. User can disable this function, if necessary.

Acoustic indication of connection – three different types of acoustic indication can be set up by user: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

It is possible to select one of the following functions for yellow button (TL) during production according to customer's requirement: white light (torch), end call, emergency or keying.

Cable can be led out of the connector according to customer's requirement: up, down or sideways.

Designed for TPH 700 TETRAPOL terminals

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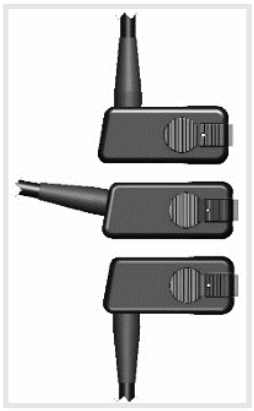
HAND SPEAKER / MIC
FOR TPH 700 TETRAPOL TERMINALS

MR 37

Rotating clip



Cable outlet from connector

Description

MR 37 hand speaker / mic for TPH700 terminal of TETRAPOL system is equipped with speaker, microphone, PTT button, rotating clip, connector for external earphone connection, optical and acoustic indication of connection in TETRAPOL system.

Optical indication of connection – established connection is indicated by red LED after pressing PTT button. User can disable that function, if necessary.

Acoustic indication of connection – three different types of acoustic indication can be set up by user: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

It is possible to select one of the following functions for yellow button (TL) during production according to customer's requirement: white light (torch), end call, emergency or keying.

Cable can be led out of the connector according to customer's requirement: up, down or sideways.

Designed for TPH 700
TETRAPOL terminals

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HAND SPEAKER / MIC WITH GNSS RECEIVER
FOR TPH 700 TETRAPOL TERMINALS

GPM 37

Description

GPM 37 hand speaker / mic with built-in GNSS receiver is designed for TPH 700 TETRAPOL hand radio terminal.

The device enables voice communication of mobile participant within TETRAPOL radio network and tracking of radio terminal position in automatic tracking systems (AVL). GNSS receiver analyses signals of GPS and GLONASS systems.

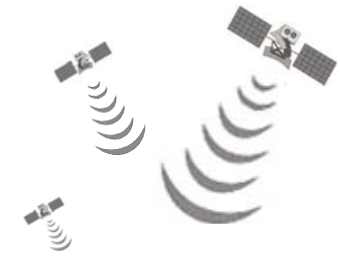
GPM 37 is equipped with speaker, microphone, PTT button, rotating clip, connector for external earphone connection, optical and acoustic indication of connection in TETRAPOL system.

Optical indication of connection – established connection is indicated by red LED after pressing PTT button. User can disable this function, if necessary.

Acoustic indication of connection – three different types of acoustic indication can be set up by user: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

Yellow button is designed for switching on white light (torch).

GPM 37 is powered from radio terminal battery and switched on together with radio terminal. The device exceeds in low power consumption.



Rotating clip

Technical Specification

Type			GPM 37
GNSS receiver			GPS + GLONASS
Position accuracy		m	3 *
GNSS sensitivity	Acquisition	dBm	-160
	Tracking	dBm	-165
Acquisition time	Cold start	s	34
	Hot start	s	3
Power consumption	GNSS receiver on	mA	25
	GNSS receiver off	mA	5
Operating temperature range / Ingress protection		°C	-20 ÷ +55 / IP 54
Weight		kg	0,2
Dimensions w × h × d		mm	62 × 72 × 35

* Position accuracy depends on GPM 37 receiver position and on GPS satellites visibility.

Designed for TPH 700 TETRAPOL terminals

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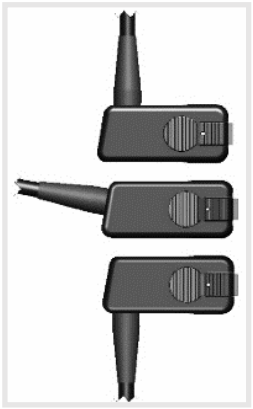
HAND SPEAKER / MIC
FOR TPH 700 TETRAPOL TERMINALS

MR 31



Cable outlet from connector

Rotating clip

Designed for TPH 700 TETRAPOL terminals

Description

MR 31 hand speaker / mic for TPH 700 terminals of TETRAPOL system is equipped with speaker, microphone, PTT button, rotating clip, connector for external earphone connection and acoustic indication of connection in TETRAPOL system.

Acoustic indication of connection – three different types of acoustic indication can be set up by user: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

Cable can be led out of the connector according to customer's requirement: up, down or sideways.

CHARGER SET OF TPH 700 TERMINALS
FOR INSTALLATION INTO VEHICLE

KZ 33 Box + BZ 400

Description

Charger set of TPH 700 terminals is designed for fixed installation into vehicle.

Set consist of BZ 400 vehicle voltage converter and separate box of KZ 33 desk single unit charger for TPH 700 terminal.

Technical Specification

Type		KZ 33 Box + BZ 400
Power supply	V DC	12 or 24
Charger supply voltage	V DC	7.5
Maximum output current	A	2.9
Indication		green LED
Battery charging temperature	°C	0 ÷ +45
Storage temperature	°C	-40 ÷ +80
Length of feeder cable	m	1
Length of output cable	m	0.5
KZ 33 Box dimensions	mm	95 × 92 × 59
BZ 400 dimensions	mm	46 × 40 × 21
Weight	g	206

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KZ 33

Description

KZ 33 single-unit desktop charger
for TPH 700 terminals.

Technical specification

Type		KZ 33
Power supply	V AC	100 ÷ 240
Charger supply voltage	V DC	7.5
Indication		Green / Red – LED
Battery charging temperature	°C	0 ÷ +45
Storage temperature	°C	-40 ÷ +80
Dimensions	mm	95 × 92 × 59
Weight	g	130 / 190

KZ 34

Description

KZ 34 multi-unit desktop charger
for TPH 700 terminals.

Technical Specification

Type		KZ 34
Power supply	V AC	100 ÷ 240
Charger supply voltage	V DC	6× 7.5
Indication		6× Green / Red – LED
Battery charging temperature	°C	0 ÷ +45
Storage temperature	°C	-40 ÷ +80
Dimensions	mm	548 × 95 × 60
Weight	g	1190 / 490

KZ 32

Description

KZ 32 car charger for TPH 700 terminals

- Easy charging of TPH 700 with inbuilt battery
- Well-arranged charging status indication
- Radio operation possibility during charging
- Standard cigarette lighter plug

Technical Specification

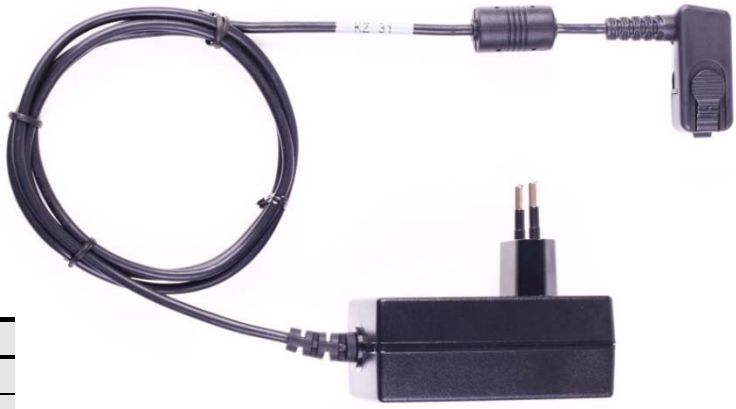
Type		KZ 32
Power supply	V DC	12 or 24
Charger supply voltage	V DC	7.5
Indication		Blue / Red – LED
Battery charging temperature	°C	0 ÷ +45
Storage temperature	°C	-40 ÷ +80
Cable length	mm	1500
Dimensions	mm	92 × 28 × 18
Weight	g	80

KZ 31

Description

KZ 31 charger for TPH 700 terminals

- Easy charging of TPH 700 with inbuilt battery
- Well-arranged charging status indication
- Radio operation possibility during charging



Technical Specification

Type		KZ 31
Power supply	V AC	100 ÷ 240
Charger supply voltage	V DC	7.5
Indication		Blue / Red – LED
Battery charging temperature	°C	0 ÷ +45
Storage temperature	°C	-40 ÷ +80
Cable length	mm	1150
Dimensions	mm	80 × 70 × 50
Weight	g	200

BELT CLIP FOR TETRAPOL TPH 700 TERMINAL

BELT CLIP

Anchoring pin for TPH 700 terminal
RCF 200 071

Leather holder

RCF 100 022

Separable leather holder
Velcro fastener
RCK 100 160

Designed for TPH 700
TETRAPOL terminals

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UNIVERSAL CONNECTING SETS FOR TETRAPOL TPH 700

RT

RJ

Universal connecting set
RT

Cable outlet
from connector

Designed for TPH 700
TETRAPOL terminals

Universal connecting set
RJ

Features

Push-pull latching connector for frequent connecting and disconnecting.

Use headsets T-xx with universal connecting sets RT (see separated catalogue list of Headsets T-xx).

Handsfree RT-xx
=
Universal connecting set RT
+
Headset T-xx
+
PTT button PTT-xx

Example
RT-53 = RT + T-53 + PTT-34

Features

Jack connector with bayonet lock. It is not recommended for frequent connecting and disconnecting.

Use headsets J-xx with universal connecting set RJ (see separated catalogue list of Headsets J-xx).

Handsfree RJ-xx
=
Universal connecting set RJ
+
Headset J-xx
+
PTT button PTT-xx

Example
RJ-53 = RJ + J-53 + PTT-34

Universal connecting sets RT and RJ have user-programmable acoustic signalling of radio terminal transmission.
Cable outlet can be from upper, down or side part of connector according to customer's requirement.
RT and RJ sets can be connected to various PTT buttons – see separated catalogue list of PTT buttons.

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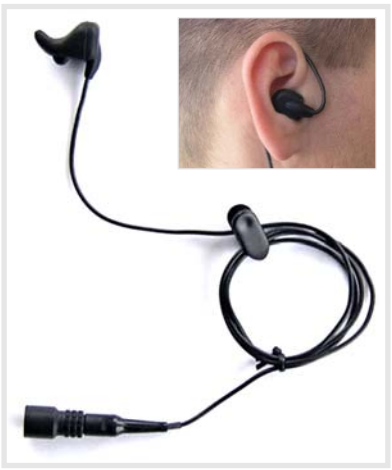
T-xx

T-147

T-46

T-50

T-52



T-53

T-53T

T-70

T-94

T-98

T-99

J-xx

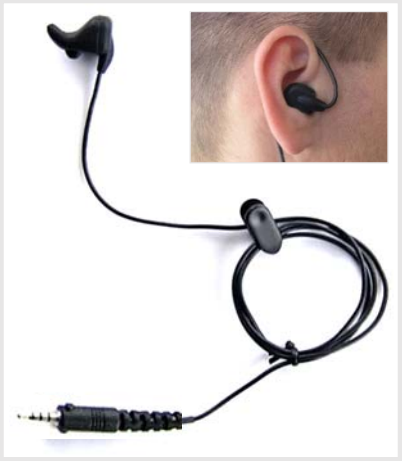
J-147

J-46

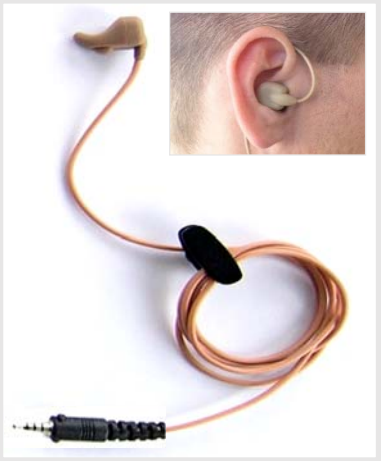
J-50

J-52

J-60T



J-53



J-53T

J-94

J-98

J-99

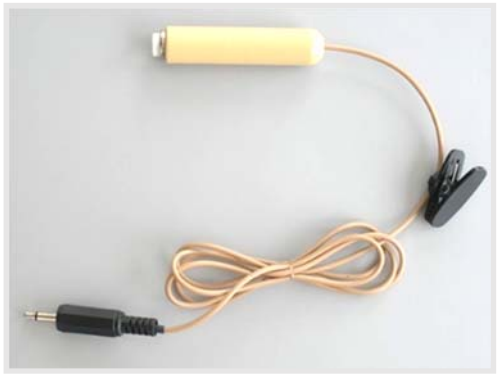
PTT BUTTONS FOR UNIVERSAL CONNECTING SETS TETRAPOL RMT, RT, RMJ and RJ

PTT-xx

PTT-21S

PTT-22

PTT-10



PTT-10T

PTT-33

PTT-34

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RMT
RMJ

Universal connecting set
RMT

Universal connecting set
RMJ

Features

Push-pull latching connector for frequent connecting and disconnecting.

Use headsets T-xx with universal connecting sets RMT (see separated catalogue list of Headsets T-xx).

Handsfree RMT-xx
=
Universal connecting set RMT
+
Headset T-xx
+
PTT button PTT-xx

Example
RMT-53 = RMT + T-53 + PTT-34

Features

Jack connector with bayonet lock. It is not recommended for frequent connecting and disconnecting.

Use headsets J-xx with universal connecting set RMJ (see separated catalogue list of Headsets J-xx).

Handsfree RMJ-xx
=
Universal connecting set RMJ
+
Headset J-xx
+
PTT button PTT-xx

Example
RMJ-53 = RMJ + J-53 + PTT-34

Universal connecting sets RMT and RMJ have acoustic signalling of radio terminal transmission.
Cable outlet can be from right or left side of connector according to customer's requirement.
RMT and RMJ sets can be connected to various PTT buttons – see separated catalogue list of PTT buttons.

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HEADSET FOR TETRAPOL TPH 700

RP-91

Designed for TPH 700 TETRAPOL terminals

Description

RP-91 headset kit is designed as hidden radio accessory that is not visible under clothes.

- Skin-coloured PTT button enables volume control in earphone.
- User-programmable acoustic signalling of TPH 700 radio transmission.
- Cable outlet can be from upper, down or side part of connector according to customer's requirement.

HEADSET FOR TETRAPOL TPH 700

RP-92

Designed for TPH 700 TETRAPOL terminals

Description

RP-92 headset kit is designed as hidden radio accessory that is not visible under clothes.

- User-programmable acoustic signalling of TPH 700 radio transmission.
- Cable outlet can be from upper, down or side part of connector according to customer's requirement.

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HEADSET FOR TETRAPOL TPH 700

RP-94 M1

Designed for TPH 700
TETRAPOL terminals

RP-94

Description

RP-94 and RP-94 M1 are small lightweight headset kits.

- PTT button with integrated microphone.
- User-programmable acoustic signalling of TPH 700 radio transmission.
- Cable outlet can be from upper, down or side part of connector according to customer's requirement.

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HEADSET FOR TETRAPOL TPH 700

RP-95

Designed for TPH 700 TETRAPOL terminals

Description

RP-95 is small lightweight headset kit.

- PTT button with integrated microphone.
- User-programmable acoustic signalling of TPH 700 radio transmission.
- Cable outlet can be from upper, down or side part of connector according to customer's requirement.

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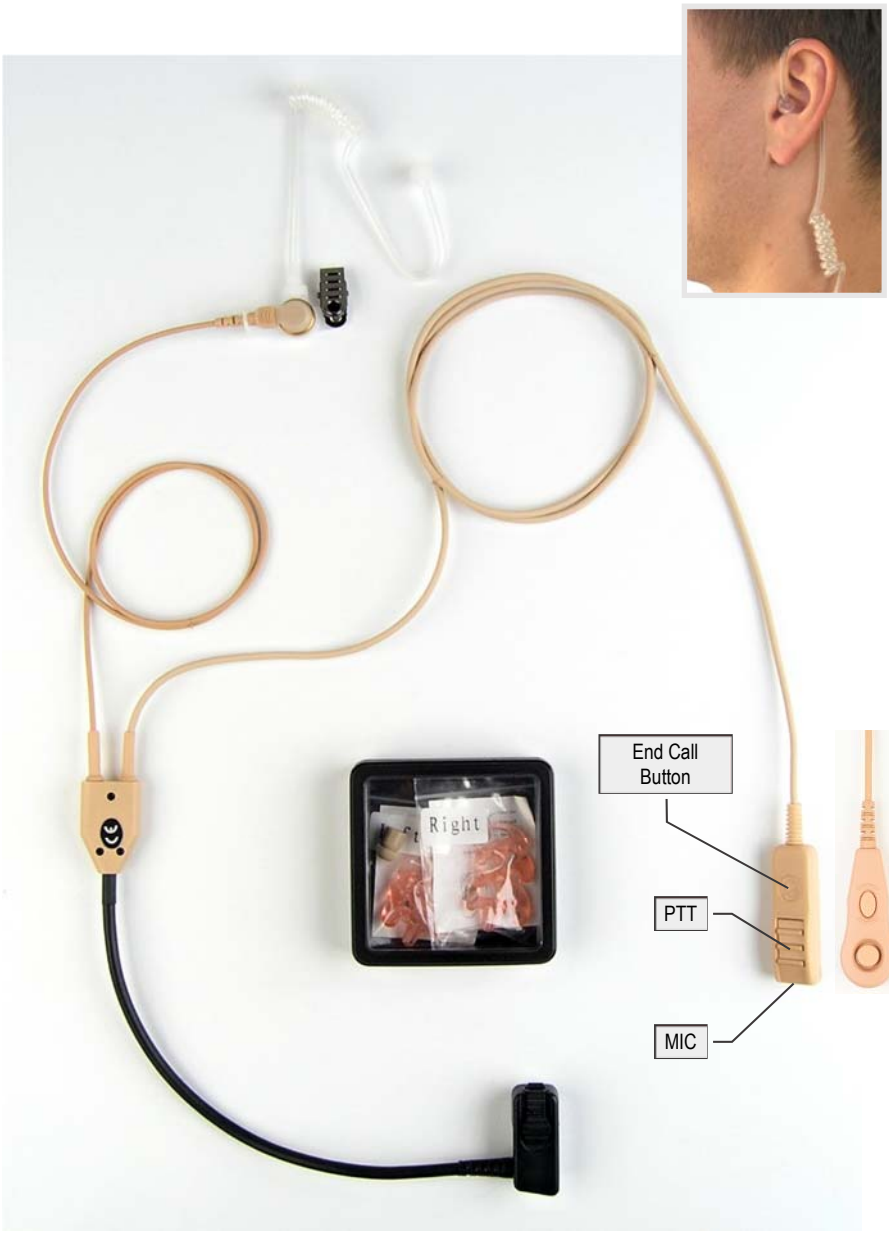
HEADSET FOR TETRAPOL TPH 700

VIP-32



Designed for TPH 700 TETRAPOL terminals

Description

Skin-coloured VIP-32 headset kit is designed as hidden radio accessory that is not visible under clothes.

- PTT button with integrated microphone in palm, hidden earphone.
- Button for switching ON and OFF connection.
- Acoustic indication of keying and connection in TETRAPOL system.
- User-programmable acoustic signalling of TPH 700 radio transmission.
- Cable outlet can be from upper, down or side part of connector according to customer's requirement.

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HEADSET FOR TETRAPOL TPH 700

VIP-33

Designed for TPH 700 TETRAPOL terminals

Description

VIP-33 headset kit is designed as hidden radio accessory that is not visible under clothes.

- Skin-coloured PTT button with integrated microphone in palm, hidden earphone.
- Button for switching ON and OFF connection.
- Acoustic indication of keying and connection in TETRAPOL system.
- User-programmable acoustic signalling of TPH 700 radio transmission.
- Cable outlet can be from upper, down or side part of connector according to customer's requirement.

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GNSS CAR SET
TETRAPOL (GPS and GLONASS)

GPS 33

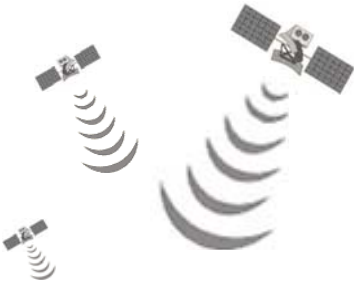
Description

GPS 33 is GNSS set designed for TETRAPOL WB BER or TPM 700 mobile radio. The set enables tracking of mobile radio position in automatic tracking systems (AVL).

The main parts of the set are GPP 02 GNSS receiver and converter of GNSS receiver. GNSS receiver supports GPS and GLONASS systems.

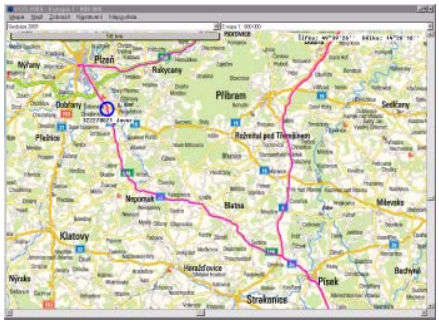
GPS 33 set exceeds in a simple installation without necessity of connection to 12 V DC on-board voltage. The set is powered from switching voltage of mobile radio. When mobile radio is switched off, car battery is not discharged.

GPP 02 GNSS receiver should be located in the vehicle to have the best view of as many satellites as possible, such as near rear side windows, rear window or windscreen.



Technical Specification

Type			GPS 33
GNSS receiver			GPS + GLONASS
Position accuracy		m	3 *
Sensitivity	Acquisition	dBm	-160
	Tracking	dBm	-165
Acquisition time	Cold start	s	34
	Hot start	s	3
Power consumption		mA	27
Operating temperature range		°C	-25 ÷ +55
Weight		g	180 and 60
Dimensions w × h × d		mm	55 × 32 × 30 and 16 × 20 × 16



* Position accuracy depends on GPP 02 receiver position in the vehicle and on GPS satellites visibility.

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DESKTOP ADAPTER FOR TPH 700 HAND TERMINAL

SA 30

Description

SA 30 desktop adapter is designed for using of TPH 700 TETRAPOL hand portable radio in combined operation. The first usage is dispatcher station with ease of use for dispatcher. The second usage is hand portable radio that can be taken away from dispatcher's workplace.

SA 30 adapter can be operated only with external antenna.

Features

- Speaker Mic
- Loud listening to the speaker integrated in the adapter
- TPH 700 terminal charging
- TNC connector for connection of external antenna (fixed base, magnetic or miniflex)
- TX operation and 12V power supply optical indication
- D-sub connector for data transmission via RS 232 serial interface

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HAND SPEAKER / MIC WITH GNSS RECEIVER
FOR TPH 700 MOBILE ADAPTER

GPM 39

Description

GPM 39 hand speaker / mic with built-in GNSS receiver is designed for TPH 700 TETRAPOL hand radio terminal inserted in mobile adapter.

The device enables voice communication of mobile participant within TETRAPOL radio network and tracking of radio terminal position in automatic tracking systems (AVL). GNSS receiver analyses signals of GPS and GLONASS systems.

GPM 39 is equipped with speaker, microphone, PTT button, magnetic holder, connector for external earphone connection, optical and acoustic indication of connection in TETRAPOL system.

Optical indication of connection – established connection is indicated by red LED after pressing PTT button. User can disable this function, if necessary.

Acoustic indication of connection – three different types of acoustic indication can be set up by user: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

Yellow button is designed for switching on white light (torch).

GPM 39 can be also connected via adapter to BIV G2 (older type of G2 hand terminal).

Magnetic holder of speaker mic

Designed for TPH 700 terminals in mobile adapter

Technical Specification

Type			GPM 39
GNSS receiver			GPS + GLONASS
Position accuracy		m	3 *
GNSS sensitivity	Acquisition	dBm	-160
	Tracking	dBm	-165
Acquisition time	Cold start	s	34
	Hot start	s	3
Power consumption	GNSS receiver on	mA	25
	GNSS receiver off	mA	5
Operating temperature range / Ingress protection		°C	-20 ÷ +55 / IP 54
Weight		kg	0,2
Dimensions w × h × d		mm	62 × 72 × 35

* Position accuracy depends on GPM 39 receiver position and on GPS satellites visibility.

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HAND SPEAKER / MIC
FOR TPH 700 MOBILE ADAPTER

MR 39

Magnetic holder
of speaker mic

Designed for TPH 700 terminals
in mobile adapter

Description

MR 39 hand speaker / mic is designed for TPH 700 TETRAPOL hand radio terminal inserted in mobile adapter.

MR 39 is equipped with speaker, microphone, PTT button, magnetic holder, connector for external earphone connection, optical and acoustic indication of connection in TETRAPOL system.

Optical indication of connection – established connection is indicated by red LED after pressing PTT button. User can disable this function, if necessary.

Acoustic indication of connection – three different types of acoustic indication can be set up by user: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

Yellow button is designed for switching on white light (torch).

MR 39 can be also connected to BIV G2 (older type of G2 hand terminal) via adapter.

DATA CABLE FOR TPH 700 TETRAPOL TERMINALS

RX-99 / USB

RX-99 / RS 232

DX-105

RX-99 / USB	RX-99 / RS 232	DX-105

Description

RX-99 / USB data cable is designed for data transmission between EADS TPH 700 terminal and personal computer by USB serial interface.

RX-99 / RS 232 data cable is designed for data transmission between EADS TPH 700 terminal and personal computer by RS 232 serial interface.

DX-105 programming cable is designed for EADS TPH 700 terminal programming.

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RCK 100 063

Description

Adapter BNC/G2 is designed for connection between TETRAPOL G2 handheld and external antenna or measurement device with BNC connectors.

RCK 100 119

Description

Adapter BNC/G3 is designed for connection between TETRAPOL EADS TPH 700 handheld and external antenna or measurement device with BNC connectors.

EARPHONE SETS FOR TETRAPOL G2 AND TPH 700

SL-xx

TSL-xx

S-94 T

S-94

S-92

S-97

S-98

Universal connecting earphone sets

Example of sets labelling

G2 earphone set type SL-94 consist of S-94 earphone and SL set.
TPH 700 earphone set type TSL-94 consist of S-94 earphone and TSL set.

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HAND SPEAKER / MIC
FOR G2 TETRAPOL TERMINALS

MR 01

Rotating clip

Designed for G2
TETRAPOL terminals

Description

MR 01 hand speaker / mic for G2 terminals of TETRAPOL system is equipped with speaker, microphone, PTT button, rotating clip, connector for external earphone connection and acoustic indication of connection in TETRAPOL system.

Acoustic indication of connection – three different types of acoustic indication can be set up during production according to customer's requirement: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

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MR 07

Rotating clip

Designed for G2 TETRAPOL terminals

Description

MR 07 hand speaker / mic for G2 terminal of TETRAPOL system is equipped with speaker, microphone, PTT button, rotating clip, connector for external earphone connection, optical and acoustic indication of connection in TETRAPOL system.

Optical indication of connection – established connection is indicated by red LED after pressing PTT button.

Acoustic indication of connection – three different types of acoustic indication can be set up during production according to customer's requirement: classic mode, mode with indication of connection into network or silent mode without acoustic indication.

It is also possible to select one of the following functions for yellow button (TL) during production: end call, emergency or keying.

BL 01D

Description

BL 01D bluetooth data interface is designed for data transmission between EADS (MATRA) G2 hand terminal and data terminal equipment (smartphone, tablet, PC).

It can be used as a wireless replacement of data cable RMX-99.

Technical Specification

Type		BL 01D
Power supply		from hand terminal battery
Power consumption	mA	23
Range	m	max. 10
Operating frequency	MHz	2400 ÷ 2480
Maximum RF power	dBm	-20 ÷ +4

BELT CLIP

Anchoring pin
for G2 terminal – LOW

RCF 200 032

Suitable for low batteries. Not suitable for Beluga batteries due to their dimensions.

Anchoring pin
for G2 terminal – Beluga II

RCF 200 070

Suitable for Beluga I, Beluga II batteries and low batteries.

Leather holder

RCF 100 022

Separable
leather holder

RCF 100 021

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HEADSET FOR TETRAPOL G2

VIP-22

Designed for G2 TETRAPOL terminals

Description

Skin-coloured VIP-22 headset kit is designed as hidden radio accessory that is not visible under clothes.

- PTT button with integrated microphone in palm, hidden earphone.
- Button for switching ON and OFF connection.
- Acoustic indication of keying and connection in TETRAPOL system.

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HEADSET FOR TETRAPOL G2

VIP-23

Designed for G2
TETRAPOL terminals

Description

VIP-23 headset kit is designed as hidden radio accessory that is not visible under clothes.

- Skin-coloured PTT button with integrated microphone in palm, hidden earphone.
- Button for switching ON and OFF connection.
- Acoustic indication of keying and connection in TETRAPOL system.

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DATA CABLE FOR TETRAPOL G2 TERMINALS

RMX-99 / RS 232

RMX-99 / USB

RMX-99 / RS 232

RMX-99 / USB

Description

RMX-99 / RS 232 data cable is designed for data transmission between EADS G2 terminal and personal computer by RS 232 serial interface.

RMX-99 / USB data cable is designed for data transmission between EADS G2 terminal and personal computer by USB serial interface.

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AG-2

Description

AG-2 battery is designed for use with TETRAPOL G2 hand terminals and original chargers supplied by EADS (former MATRA).

Battery has an optical indication of current battery charging condition. It is suitable especially for G2 terminals without display.

Current battery charging condition (25%, 50%, 75% and 100%) is indicated by the LED diode after pressing “TEST” button.

Battery is delivered in storage mode where electronics is disconnected and battery cannot be discharged. Battery in storage mode communicates neither with terminal nor with charger. Battery is putting into operation by first pressing of the “TEST” button.

Battery is delivered in scratch resistant plastic box.

Back side of battery

Test of battery charging condition

Designed for G2 TETRAPOL terminals

Technical Specification

Type		AG-2 / 2100
Capacity	mAh	2100
Dimensions w × h × d	mm	68 × 105 × 17
Weight	g	158
Storage temperature range till 1 year	°C	-20 ÷ +35
Storage temperature range till 90 days	°C	-20 ÷ +45
Storage temperature range till 30 days	°C	-20 ÷ +55

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BATTERY FOR TETRAPOL G2 TERMINALS

AG-2-NL

Back side of battery

Designed for G2 TETRAPOL terminals

Description

AG-2-NL battery is designed for use with TETRAPOL G2 hand terminals and original chargers supplied by EADS (former MATRA).

Battery is delivered in scratch resistant plastic box.

Technical Specification

Type		AG-2-NL / 2100
Capacity	mAh	2100
Dimensions w × h × d	mm	68 × 105 × 17
Weight	g	158
Storage temperature range till 1 year	°C	-20 ÷ +35
Storage temperature range till 90 days	°C	-20 ÷ +45
Storage temperature range till 30 days	°C	-20 ÷ +55

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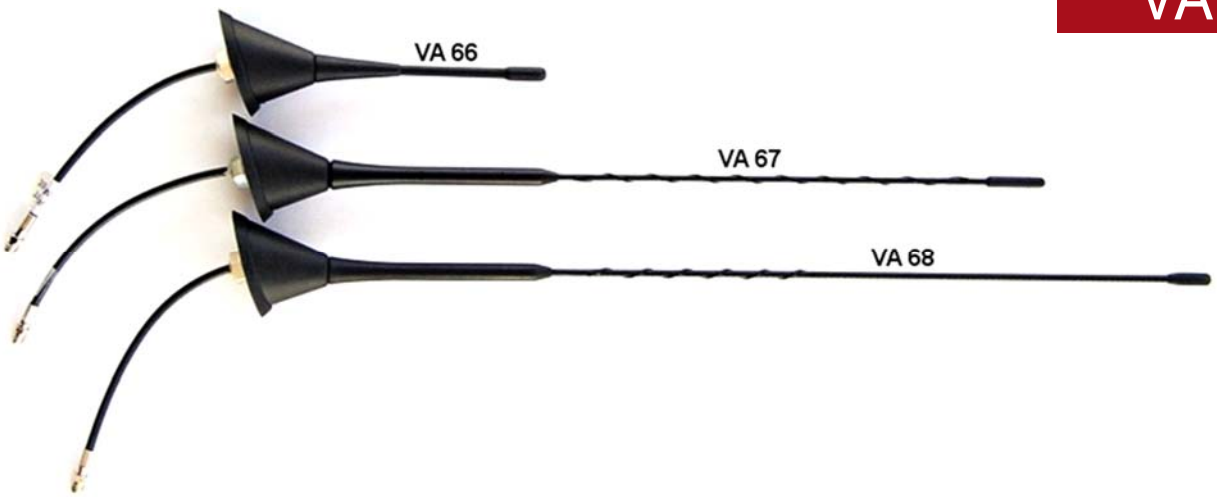
OMNIDIRECTIONAL VEHICLE ANTENNA

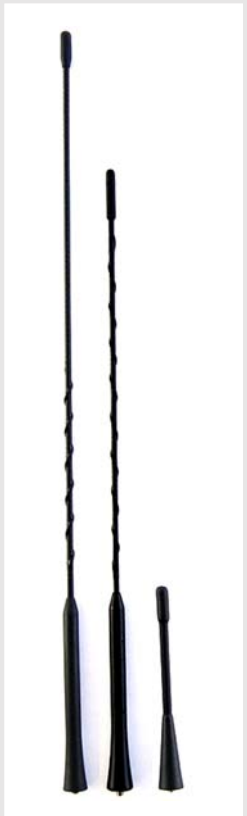
VA 66
VA 67
VA 68



Description

VA 66, VA 67, VA 68 vehicle antennas are designed for assembly on car roof. Antennas are designed for vehicle radios in radio network of TETRAPOL system in frequency band from 380 to 395 MHz.

Antenna bases are identical therefore antenna whips are exchangeable.



Antenna whips

Technical Specification

Type		VA 66	VA 67	VA 68
Frequency range	MHz	380 ÷ 395		
Gain	dBi	2		5
Radiation pattern		omnidirectional		
Polarization		vertical		
Length of antenna radiator		λ / 4		5/8 λ
Impedance	Ω	50		
VSWR		< 1.8		< 1.5
Maximum input power	W	20		
Whip tilt angle	°	74		
Length of whip	mm	137	410	511
Weight with antenna base	kg	0.08	0.1	
Material of antenna		plastic, galvanized iron, brass		
Mounting hole	mm	∅ 19 (15×15)		
Connector type		FME (3,5 m TNC, BNC)		

Note: VA 66, 67, 68 vehicle antennas are terminated with coaxial cable length of 0.3 m with FME female connector. They are supplied with jumper cable length of 3.5 m with FME male connector on the first end and BNC male or TNC male connector on the other end according to the order.

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VAS 39

Description

VAS 39 vehicle antenna is designed for radios in PEGAS and SITNO radio networks of TETRAPOL system in frequency band from 380 to 395 MHz.

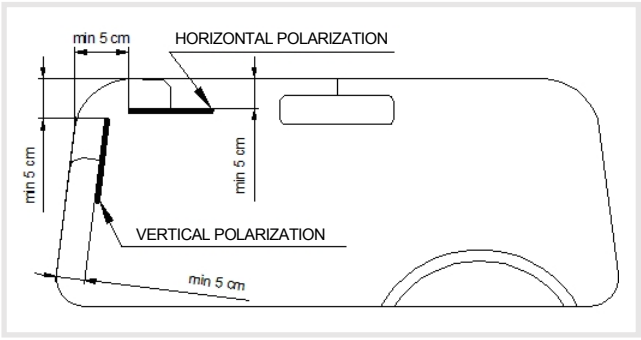
Antenna is designed for assembly on windscreen or rear window in car according to mounting instructions.

Antenna is suitable for hidden assembly.

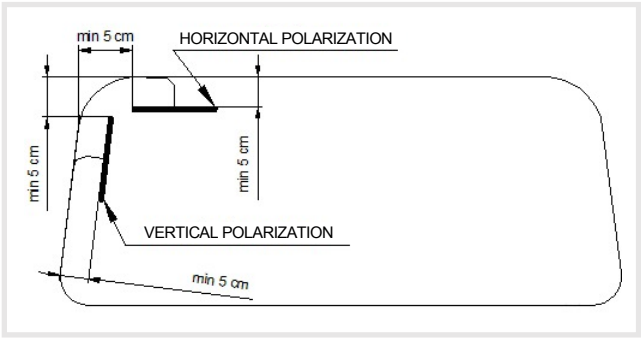
Technical Specification

Type		VAS 39
Frequency range	MHz	380 ÷ 395
Radiation pattern		omnidirectional
Impedance	Ω	50
VSWR		< 2
Maximum input power	W	10
Length of coaxial cable (RG 174)	m	3.5
Weight	g	50
Dimensions d × v	mm	270 × 11
Connector type		TNC, BNC, FME

Note: VAS 39 antenna is terminated with coaxial cable length of 3.5 m with TNC male, BNC male or FME female connector according to the order.



Scheme of antenna location on windscreen



Scheme of antenna location on rear window

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FM VEHICLE COUPLER

RVX 25

Description

- parallel operation of mobile transceiver and car radio FM with one mobile antenna
- extremely small dimension
- very easy and quick installation

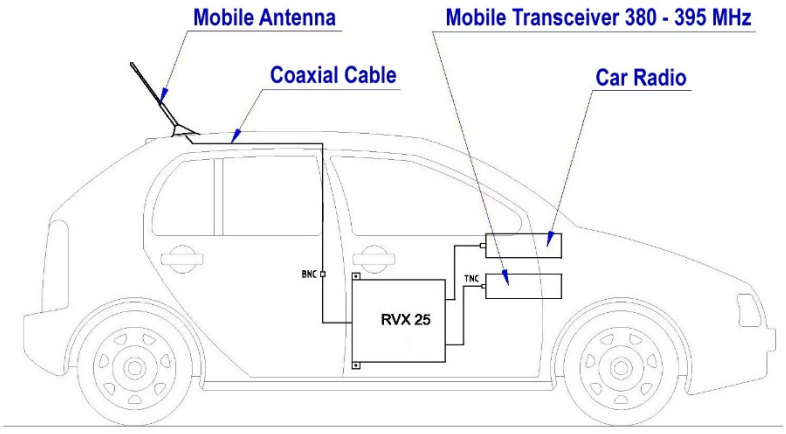
Technical Specification

Type			RVX 25
Frequency band	Transceiver (RDST)	MHz	380 ÷ 395
	Car radio (AUTORÁDIO)	MHz	87 ÷ 108
Maximum input power		W	30
Insertion loss	Transceiver (RDST)	dB	≤ 1.5
	Car radio (AUTORÁDIO)	dB	≤ 1.0
Isolation		dB	≥ 30
Impedance		Ω	50
Operating temperature range		°C	-30 ÷ +70
Dimensions w × h × d		mm	60 × 55 × 24
Weight		g	~ 150
Connectors type	Transceiver		TNC male, cable length 1 m
	Car radio		coax. connector for car radio, cable length 1 m
	Antenna		BNC female, cable length 0,2 m

Recommended accessories:

- vehicle antennas for TETRAPOL VA 66, VA 67, VA 68
- vehicle antenna ŠKODA / TETRAPOL – RCP 300 006

Antenna ŠKODA / TETRAPOL – RCP 300 006



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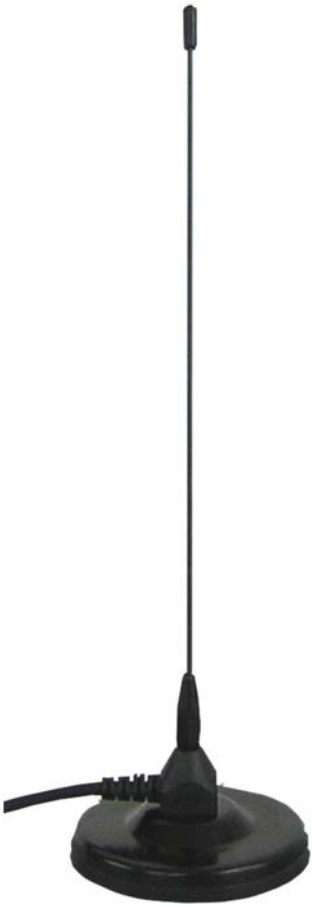
OMNIDIRECTIONAL MAGNETIC ANTENNA

VMA 390

Description

VMA 390 vehicle antenna is whip antenna with magnetic holder designed for assembly on car roof or metal parts which create antenna counterpoise.

Antenna is designed for systems in frequency band from 380 to 395 MHz.



Technical Specification

Type		VMA 390
Frequency band	MHz	380 ÷ 395
Gain	dBi	2
Radiation pattern		omnidirectional
Length of antenna radiator		λ / 4
Polarization		vertical
Impedance	Ω	50
VSWR		< 1.5
Maximum input power	W	30
Material		brass, plastic, stainless steel
Weight with cable	kg	0.65
Length of cable	m	3.5
Connector type		BNC male or TNC male

Note:
VMA 390 antenna is standardly terminated with coaxial cable length of 3.5 m with BNC male or TNC male connector. Antenna can be supplied with other cable length and other connectors according to customer's requirement.

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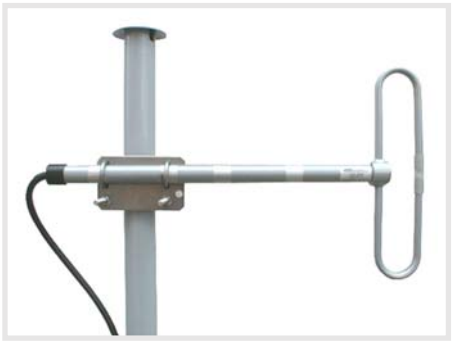
BO 321

Description

Omnidirectional base antenna BO 321 is designed for mobile and data radio networks.

Technical Specification



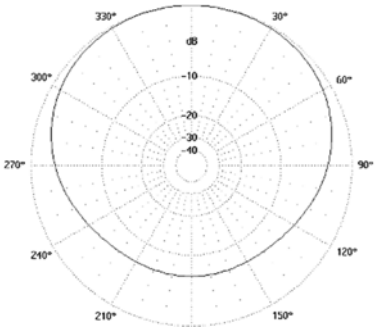
Type		BO 321
Frequency range	MHz	380 ÷ 430
Gain in front / back direction *	dBi	3,2 / -4,2
Gain in side direction (90°, 270°) **	dBi	3,7
Radiation pattern (* / **)		offset (omnidirectional with shift axis) / elliptic
Maximum input power	W	200

* Distance (L) from the mast λ/4 (~ 195 mm)
** Distance (L) from the mast λ/2 (~ 390 mm)

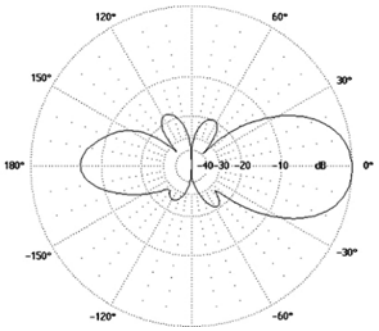
BG 322

Description

Omnidirectional base gained antenna BG 322 is designed for mobile and data radio networks.



Radiation pattern – H plane



Radiation pattern – E plane

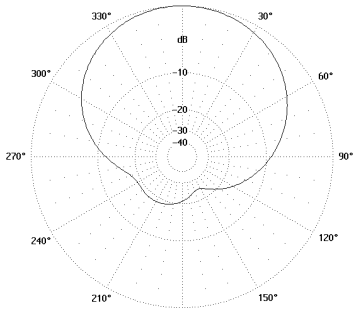
Technical Specification

Type		BG 322
Frequency range	MHz	380 ÷ 425
Gain in front direction	dBi	8
Radiation pattern – H plane		offset (omnidirectional with shift axis)
Beamwidth – E plane	°	30 ÷ 40
Maximum input power	W	150

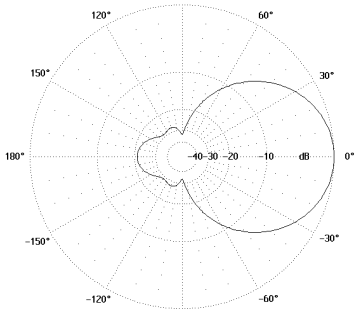
Description

Directional base antennas are designed for mobile and data radio networks.

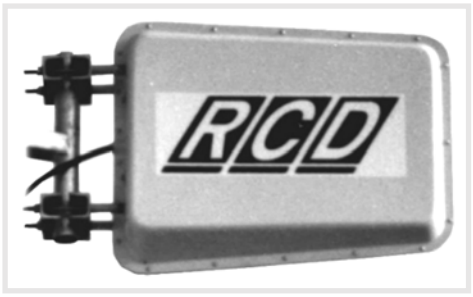
BD 310



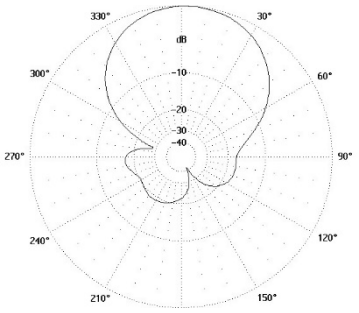
Radiation pattern – H plane



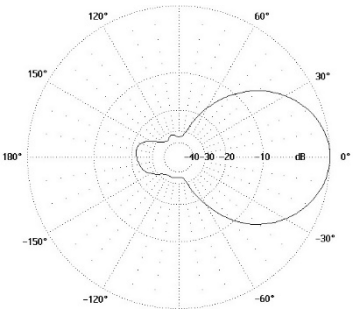
Radiation pattern – E plane



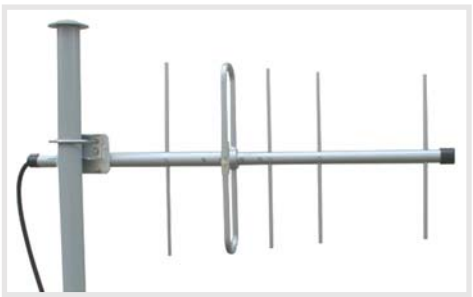
BD 311



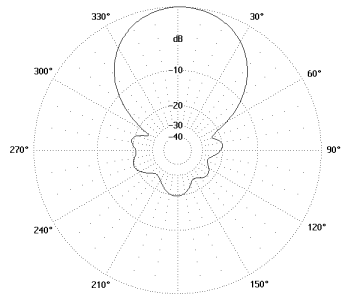
Radiation pattern – H plane



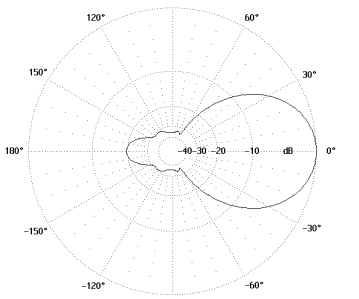
Radiation pattern – E plane



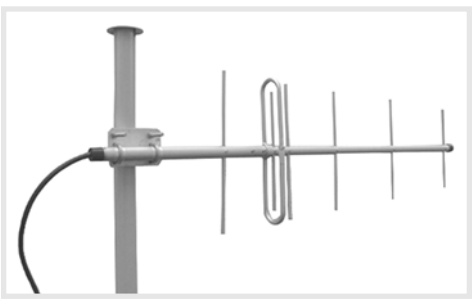
BD 312



Radiation pattern – H plane



Radiation pattern – E plane



Technical Specification

Type		BD 310	BD 311	BD 312
Frequency band	MHz	380 ÷ 400	380 ÷ 395	380 ÷ 395
Gain	dBi	8,5	9	11
Front-to-back ratio	dB	20 ÷ 26	18 ÷ 27	17,5 ÷ 24
Maximum input power	W	150	200	200

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