

TPH600 TETRAPOL handportable radio

Compact and convenient



TPH600 TETRAPOL handportable radio

- Lightweight, small in size
- High resolution colour display
- Easy-to-use 4-way navigation
- Customisable tactical button for frequent tasks
- High-quality hands-free loudspeaker
- Bluetooth® wireless technology connectivity for accessories and devices



Small but powerful

The EADS TPH600 is a modern, lightweight handportable designed for easy and reliable radio communication. It is ideally suited to PMR users who require a well-designed, small mobile device for everyday use. With versatile group call features and instant call set-up, it provides fast, dynamic group communication.

The device also supports individual calls, calls to public telephone networks, direct mode communication as well as status and text messaging; and it can be used for data communication when connected to a PC or PDA. For enhanced user safety, the radio also has a dedicated emergency call key.

High quality user interface

With the TPH600, information is at the user's fingertips – quickly and reliably. The active high-resolution colour display and 4-way navigation key provide a new level of convenience. With a 65,536-colour screen, the display can present up to 5 lines of text and its distinctive icons and symbols provide information in a clear and easy-to-use format. The intuitive graphical menu guides the user through the radio's extensive range of features.

Customise to your individual needs

The tactical button below the display screen can be programmed according to users' needs. Providing direct access to pre-defined functions, such as status sending or last received text messages, it makes everyday tasks easier and faster to access. For further customisation, graphical features such as the name of the organisation or network in the centre of the screen or a log when the terminal starts up can be added.

Wireless connectivity via Bluetooth®

For enhanced user comfort and flexible connectivity in a wide range of





situations, TPH600 provides an option to connect external audio and data devices wirelessly to the radio via Bluetooth®. This allows it to be used with a wide choice of commercially available accessories such as headsets and earpieces, handsfree car kits, GPS devices, PDAs and PCs. One TPH600 radio – using Bluetooth® – can manage three connections – one audio and two data connections, simultaneously.

Accessories

The following accessories are available for the TPH600 radio:

- Standard battery, Li-Ion 1050 mAh
- High capacity battery, Li-Ion 1800 mAh
- Desktop charger
- Multislot charger (2 and 6 slots)
- Pedestrian kit
- Discreet kits: VIP escort kit, induction loop and walkman
- Speaker microphone with different earpieces and headsets
- Belt clip
- Carrying case
- Car cradle
- Dedicated Bluetooth® earpiece with PTT and audio volume
- Long helical antenna 380-400 MHz with 0 dBi gain
- Short helical antenna 380-400 MHz with -3 dBi gain
- Long helical antenna 440-470 MHz with 0 dBi gain

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EADS TETRAPOL terminals fulfill the following specifications for radio equipment in the temperature range of -20°C to +55°C:

- ETSI EN 300 113-1 & -2 radio standards
- ETSI EN 300 328-1 & -2 radio standards for Bluetooth® part
- ETSI EN 301 489-5 & -1 EMC standards
- ETSI EN 301 489-17 EMC standard for Bluetooth® part
- EN 60950-1: 2001 electrical safety standard
- Worker SAR limits required by European directive 2004/40/EC and standard IEEE C95-1 according to the methods of standards EN50361 (EN62209-1), IEC 62209-1, IEC 62209-2 (draft) and IEEE Std 1528-2003
- CE marking according to R&TTE directive 1999/5/EC
- ROHS product according to European directive 2002/95/EC

Frequency bands

- 380-400 MHz with a 10 to 12.5 KHz channel spacing
- 440-470 MHz with a 10 to 12.5 KHz channel spacing
- Possible half channel offset
- Other bands on request

RF specifications

- Transmitter output power 2W
- Static / dynamic sensitivity better than -119 dBm / -111 dBm

Size

- Weight: 235g with the standard battery, 270g with the high capacity battery
- Dimensions: 142 x 55 x 32 mm with standard battery, 142 x 55 x 37 mm with high capacity battery

Environmental specifications

- Water and dust according to IP52 classification
- Shock, drop and vibration according to ETS EN 300019-1-7 class 5M2
- Humidity according to ETS EN 300019-1-7 class 7.3, up to 95%

Display

- High-resolution full-graphics display: 128 x 128 pixels

Keypad / controls

- Alphanumeric keypad
- 4-way navigation key
- Tactical button
- 2 selection keys
- Power-on key, volume keys, PTT keys, red function key for emergency calls

Call types

- Individual calls
- Multiple calls
- PABX/PSTN calls
- Call forwarding
- Call transfer
- Calling party identification

Group communication

- Up to 20 groups
- Conventional and trunked mode
- Open channel communication, talkgroups
- Broadcast call
- Emergency call
- Group merging
- Scanning, late entry
- Calling party identification

Direct and repeated mode

- Extended coverage in direct mode 380 – 400 MHz or 440 – 470 MHz
- Emergency call
- Use of independent repeater
- Calling party identification

Messaging

- Status messages
- Text messages and TETRAPOL data exchange

Security

- Embedded ciphering component (ASIC)
- Mutual authentication
- End-to-end encryption for voice and data
- Over the air re-keying
- Remote disabling (stun)
- Support for smart card (option)
- Customer specific encryption (option)

Wireless data

- Connection to PC, PDA through TETRAPOL drivers under Windows CE, XPTM
- USB link
- Bluetooth® link (option)

Other features

- Integrated Bluetooth®
- 3 simultaneous Bluetooth® accessories (1 voice and 2 data)
- Compatible with any Bluetooth® certified accessory
- GPS position sent on request through a Bluetooth® GPS (depending on compatibility of system version)

Battery

- Standard battery:
Use time: more than 8h (60/35/5)
Charging time: 3.5h
- High capacity battery:
Use time: more than 14h (60/35/5)
Charging time: 5.5h

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Operations and some features are software and / or network dependent.



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EADS Secure Networks

Rue JP Timbaud - Montigny Le Bretonneux
78063 SAINT QUENTIN YVELINES CEDEX - France

Tel: +33 (0)1 34 60 80 20

Fax: +33 (0)1 30 47 61 19

www.eads.com/pmr