

TETRAPOL TPM700 Mobile Radio

Ergonomic and powerful



TETRAPOL TPM700 Mobile Radio

- **10 W output power for a large radio coverage**
- **Designed to withstand extreme conditions**
- **High resolution colour display**
- **Intuitive navigation**
- **Customisable shortcut button for frequent tasks**
- **Dedicated accessories for several configurations (vehicle, fixed, motorbike)**

Robust and water-resistant

The TPM700 is a TETRAPOL mobile radio designed for secure voice and data communications in various types of vehicles, as well as office. It is ideal for professional radiocommunication users who require an ergonomic and powerful radio for daily use.

The TPM700 consists of a robust radio unit which is common for vehicle, motorbike and fixed configurations. For car and office use, the TPM700 comes with a separate user friendly control unit with colour display and keypad, and a relevant installation kit. Alternatively, a robust and compact control head for motorbike installation is available.

Ergonomical and user-friendly

The TPM700, which is part of the latest generation of EADS radios, has a colour display, easy-to-use keypad and functional menus. Thanks to its size, the high resolution TFT display provides crisp, clear images and colour graphics. Even in variable light conditions, the information is clearly visible on the display.

Customisable

The TPM700 can adapt to the needs of individual users. It has a convenient shortcut button that can be programmed for the most frequently-used functions. Users no longer need to go to the main menu to send or read messages or send their GPS position, for instance. Instead, they can simply press the shortcut button. In addition, the user interface can be customised to display an organisation's name or a splash screen.



Vehicle configuration

- Control head (DIN or dashboard mounting)
- Speaker microphone with PTT
- Fastening device for radio unit installation
- Hands free kit



Office configuration

- Control head (desk mounting)
- Gooseneck microphone with PTT
- 15 W loudspeaker
- Light headset
- Wall mounting cabinet including 220/12 V power supply

Motorbike configuration

- Motorbike control panel
- PTT
- Gooseneck microphone
- 15 W loud speaker
- Helmet interface
- Handlebar accessories and cabling for BMW 1150 RT

Data terminal should be connected to each of these configurations through the appropriate RS 232 cable.



TETRAPOL TPM700 mobile radio

The TPM 700 complies with the following standards which apply to radio equipment in the temperature range – 30 °C to 60 °C:

- ETSI radio standards EN 300 113-1 & -2
- ETSI EMC standards EN 301 489-5 & -1
- Standard relating to electrical safety EN 60950-1: 2001
- CE marking in accordance with European directive R&TTE 1999/5/EC
- "e" motorbike marking in accordance with European directive 97/24/EC
- RoHS equipment in accordance with European directive 2002/95/EC

Frequency bands

- 380-430 MHz with 10 or 12.5 kHz spacing
- 440-490 MHz with 10 or 12.5 kHz spacing
- Half-channel offset possible
- Other bands on request

RF specifications

- Maximum power at transmitter output: 10 W
- Static/dynamic sensitivity better than - 119 dBm/- 111dBm

Environmental specifications

- Water and dust protection in accordance with classification IP54
- Bumps and vibrations in accordance with ETS EN 300019-1-5 class 5M3
- Humidity in accordance with ETS EN 300019-1-5 class 5.2 up to 95 %

Size

- Radio unit: 43 x 220 x 158 mm
- Control head: 58 x 188 x 39 mm
- Motorbike control head: 80 x 140 x 48 mm

Display

- High resolution graphic 2.2" TFT display: 128 x 160 pixels

Keypad/controls

- Alphanumeric keypad
- Navigator
- Shortcut button
- 2 selection keys
- Power-on button, volume control button, red key for emergency calls
- Dual-function button for volume control and/or channel selection

Call types

- Individual calls
- Multi-party calls
- PBX/PSTN calls
- Call forwarding
- Call transfer
- Calling party identification

Group communications

- Up to 20 groups
- Normal mode and trunked mode
- Open channels, talkgroups
- Broadcast call
- Emergency call
- Group merging
- Scanning, late entry
- Calling party ID

Direct mode and repeater mode

- Extended coverage in direct mode 380-430 MHz or 440-490 MHz
- Emergency call
- Use of repeater mode
- Calling party ID

Messaging

- Status
- TETRAPOL text messages and data exchange
- Sending of geolocation, depending on network system version, with external GPS device
- Geolocated emergency call, depending on network system version

Security

- Embedded encryption component (ASIC)
- Mutual authentication
- End-to-end encryption of voice and data
- Key renewal over the air interface
- Remote disabling (stun)
- Encryption (customer option)

Data transmission

- Connection to a PC or PDA through serial port with TETRAPOL drivers in Windows CE and XPTM

EADS Secure Networks

Wörthstrasse 85
89077 Ulm - Germany
Tel.: +49 (0) 731 392 11

EADS Secure Networks

Hiomotie 32
00380 Helsinki - Finland
Tel.: +358 10 4080 000

EADS Secure Networks

1, boulevard Jean Moulin
CS 40001
78996 Elancourt Cedex - France
Tel.: +33 (0)1 61 38 50 00
Fax: +33 (0)1 61 38 70 70
e-mail: securenetworks@eads.com
www.eads.com/pmr