TETRAPOL TPH700 Ex
Intrinsically safe handheld radio

The TETRAPOL TPH700 Ex is designed to provide high quality voice and data communications during critical missions. ATEX certification, for use in potentially explosive environments, enables users to work in complete safety in places where flammable substances are produced, processed, transported and stored.

Its robust design makes it suitable for use in the harshest conditions. The high resolution colour display makes information easy to read on a radio that is simple to use and exceptionally intuitive. A high quality loudspeaker provides clear sound, even in noisy surroundings. The radio's shortcut buttons and features are configured in such a way that the TPH700 Ex is highly

suitable for the specific needs of different organisations. The vehicle adapter and standard TPH700 chargers can be used in non-ATEX environments. The TPH700 Ex comes with a wide range of ATEX-certified accessories, in particular audio equipment, for a variety of needs

Technical specifications

Standards
• ETSI EN300113-1 & -2 radio standards
• ETSI EMC EN301489-5 & -1 radio standards
• Exposure to RF fields: the radio complies with the exposure limits for workers defined in European directive 2004/40/EC (10W/kg). Exposure is calculated according to method EN50361, IEC62209-1 and IEC62209-2.

Intrinsically Safe Certification
The TPH700 Ex complies with ATEX standards EN60079-0 and EN60079- 11 relating to potentially explosive environments, with protection level II 2G Ex ib IIC T4 Gb.

Frequency Bands
• 380-430 MHz with a 10 or 12.5 kHz step
• 440-490 MHz with a 10 or 12.5 kHz step
• Half-channel offset option

RF specifications
• Maximum transmitter output power: 1.26 W (31dBm)
• 10 W when used with vehicle adapter and BIV-S booster

Environmental specifications
• Water- and dust-resistant according to IP54 classification
• Resistant to shocks, impact and vibration according to ETS EN300019-1-7 class 5M2
• Protection against humidity according to ETS EN300019-1-7 class 7.3, up to 95 %

Size
• Weight: 440 g
• Dimensions: 151 x 61 x 40 mm

Display
High resolution TFT graphic display: 128 x 160 pixels

Keypad / Controls
· Alphanumeric keypad
• Navigation key
• Shortcut button
• Two context-sensitive keys
• Power-up key, volume control key, PTT key, emergency call key
• Dual-function rotary button (volume control and/or channel selection)

Battery
• Li-Ion 1280 mAh
• Up to 10 hours autonomy (60/35/5)

Call types
• Individual calls
• Multi-party calls
• PBX/PSTN calls
• Call forward
• Call transfer
• Caller identification

Group calls
• Open channels, talkgroups
• Normal mode and trunked mode
• Broadcast call
• Emergency call
• Group merging
• Scanning
• Caller identification

Direct mode and IDR mode
• Extended coverage in direct mode
• Emergency call
• Caller identification

Messaging
• TETRAPOL text messages and data exchange
• Geo-located status
• Periodic geolocation
• Geo-located emergency call with GPS-wireless*, depending on network system version

Security
• Embedded encryption component (ASIC)
• Mutual authentication
• End-to-end voice and data encryption
• Over-the-air rekeying
• Remote disabling (stun)
• Encryption (customer option)

Wireless connection
• Connection to a PC or PDA with TETRAPOL drivers in Windows CE and XP™
• Three simultaneous wireless accessories (one for voice and two for data)
• Compatible with all Bluetooth certified accessories with the following profiles:
- Headset
- Hands-free
- Computer (data)
- Unclassified (data, GPS)

* Other-manufacturer equipment subject to ATEX certification