

# TETRA TERMINALS

**Mission-Critical Communication. Anytime. Anywhere.**

In demanding environments where every second counts, reliable communication is essential. Hytera TETRA terminals provide the robust, secure, and seamless connectivity that professional users depend on — across public safety, industry, utilities, transportation, and critical infrastructure. Developed according to the ETSI TETRA standard, all devices integrate effortlessly into existing networks and ensure full interoperability with compliant infrastructure and terminals.

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# PT590 BEST IN CLASS

## NEXT LEVEL TETRA PORTABLE RADIO

The PT590 TETRA portable radio sets a new benchmark for mission-critical communication, combining outstanding coverage, impressive audio clarity, and advanced safety and productivity features. Designed for today's demanding operations — and tomorrow's — this rugged device ensures that users stay connected, informed, and protected at every moment.

With its modern design, intuitive interface, and next-generation technology, the PT590 becomes a reliable companion in the field under all conditions.

## READY FOR ANY MISSION

The PT590 delivers powerful and reliable communication thanks to its stable 3 W Class 3 transmission power and industry-leading receiving sensitivity. Even in remote or complex industrial environments, its anti-multipath algorithm ensures smooth and uninterrupted voice transmission.

To guarantee clear communication in noisy surroundings, the PT590 features a high-performance speaker with up to 106 phons loudness and advanced AI noise cancellation, reducing background noise by up to 30 dB. Speech separation within 20 ms and howling suppression keep audio crisp and clear, even when radios are close together.







For enhanced personnel safety, the PT590 integrates ultra-precise dual-frequency GNSS (GPS, BDS, GLONASS, Galileo), achieving location accuracy within 1 meter.

This enables faster response times and reliable tracking during emergency situations. Ease of use is built into every detail. The 2.4-inch transfective display ensures perfect readability in sunlight, while the redesigned 9-grid menu allows quick access to key functions.

Users can navigate intuitively, view entire message histories briefly, and operate the radio efficiently under pressure.

The PT590 supports remote and wireless programming, updates, and diagnostics — reducing downtime and simplifying device management. It also introduces more than 20 voice commands, allowing hands-free operation for tasks such as initiating calls, switching talk groups, or activating features when both hands are occupied.

The 2,000 mAh battery delivers up to 22 hours of operation and supports USB-C fast charging, enabling full recharge in just 1.5 hours. A 30-minute quick charge provides up to 10 hours of extra runtime — ideal for long shifts.

Built for harsh environments, the PT590 meets IP65/66/67/68 and MIL-STD-810H, surviving drops, dust, water, and extreme field conditions. Its anti-magnetic speaker also protects audio performance in metal-rich environments. With full support for AIE encryption and optional E2EE, the PT590 secures all voice and data communication, meeting the highest security standards.



# PT890Ex ATEX

## INTRINSICALLY SAFE ON THE HIGHEST LEVEL

The PT890Ex intrinsically safe TETRA handheld radio is engineered to elevate user protection and mission-critical communication — especially in the most demanding and hazardous environments. Designed for industries such as oil and gas, mining, firefighting, chemical production, pharmaceuticals, and manufacturing, it provides reliable performance where explosive gases, hazardous vapors, or combustible dusts may be present. With its advanced explosion-proof design and rugged build, the PT890Ex delivers dependable communication that workers can trust in every situation.

### ULTIMATE SAFETY



Certified according to the stringent IECEx and ATEX safety standards, the PT890Ex is built to ensure safe operation without posing any ignition risk. Its innovative intrinsically safe (IS) circuit, reinforced housing, and new-generation materials limit electrical and thermal energy to non-ignitable levels.

The device also withstands extreme temperatures ranging from  $-25^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  in hazardous zones, ensuring stable performance even under severe conditions.

To further enhance operational safety, the PT890Ex integrates a range of protective features including **Lone Worker** and **Man Down** functions. These automated alarms provide immediate alerts in emergency situations when a user becomes immobile or stops interacting with the radio. Combined with its **high-precision positioning module**, supporting GPS, BDS, GLONASS, and Galileo, the radio ensures that workers can be located quickly and accurately in emergencies — often within just one meter, thanks to dual-frequency satellite positioning.







In addition, its optimized RF architecture and advanced audio technologies ensure extended communication range and superior clarity, even in noisy or obstructed environments. The powerful 2 W speaker, AI-based noise cancellation, automatic gain control, and howling suppression all contribute to clear, interference-free audio — crucial for maintaining coordinated operations in high-risk areas.

The PT890Ex also incorporates a robust IS battery system with a reinforced locking mechanism to prevent accidental detachment, which could otherwise lead to dangerous sparks. Intelligent battery management, long-lasting power performance, and compatibility with smart charging solutions ensure that the radio remains operational throughout long and demanding shifts.

Built to exceed expectations, the PT890Ex meets IP64/IP65/IP66/IP67/IP68 protection ratings and MIL-STD-810H standards, making it fully resistant to dust, water, shock, and impact. Its enhanced anti-static technology and dual anti-magnetic mechanism protect the device from electrostatic discharge and metal particle interference — further securing its safe use in hazardous industrial settings.

# MT680 PLUS

## HIGHLY FLEXIBLE AND MOBILE

The MT680 Plus is the mobile radio for vehicles for TETRA users of all sectors. High reliability, simple operation and durability distinguish the MT680 Plus.

This TETRA mobile radio offers various operating modes, such as ETSI DMO Gateway and DMO Repeater mode, in order to increase the range of use for the connected TETRA users.

### IMMEDIATE & DIRECT COMMUNICATION



Thanks to the high 10 Watts transmit power you can reach your team even over large distances.

The MT680 Plus offers fast access to the TETRA mobile radio network and the roaming services.

### EXTREME QUALITY & FLEXIBLE INSTALLATION



Thanks to its high flexibility MT680 Plus can be practically installed anywhere. You can install the operating head separately.

A desktop cabinet is available so that the MT680 Plus can be used as a basic dispatcher, for example in a small office such as reception desk or a gatehouse.

The MT680 Plus comes with a **built-in 4W powerful speaker**, providing loud and clear audio even without an external speaker — a unique advantage in its class.

- ✓ Designed for **rugged environments** complies with ETSI TETRA, MIL-STD-810G and offers **IP67 protection** for the remote mount panel.
- ✓ **Exceptional audio quality** thanks to integrated noise-cancelling technology.
- ✓ Supports **GPS, GLONASS and Beidou** for versatile global positioning.
- ✓ **Clear 260K colour TFT display** and ergonomic 2-in-1 knob for easy operation.
- ✓ **Built-in Bluetooth** enables wireless accessory use.



# HIGHLIGHTS & FEATURES

All TETRA radios from Hytera are designed according to the TETRA standard and are characterized by versatile features, high robustness, and flexibility.

## ROBUST & RELIABLE

Radio equipment for professional users must be robust in order to remain ready for use in any situation. Dust and moisture are no risk for Hytera TETRA radios.

Considering harsh outdoor or industrial areas, all radios are in line with military standards and are perfectly prepared for use in severe environments.

## HIGH-LEVEL OF SECURITY

The TETRA radio standard stands for security, especially for public safety users. Accordingly, Hytera's radios support all measures to secure communication.

This includes authentication, air interface encryption, end-to-end encryption and other measures to protect communication.

## OPERATIONAL CONVENIENCE

Design is the difference - Hytera ensures that their TETRA radios offer user-friendly interfaces and that they are intuitive to pick up and go. All radios need minimal training.

Depending on usage scenarios, special attention was paid to ergonomics during development. Each user can expect a radio that fits his use case in terms of handling.

## VERSATILE OPERATING MODES

To provide versatile communication options, the TETRA radios support different modes of operation.

In addition to Direct Mode (DMO) and Trunked Radio Mode (TMO), our portfolio includes terminals that provide ETSI type 1A DMO repeater functionality. By using this operating mode, the respective radio can boost the area of operation for other TETRA users.

*Hytera's TETRA radios have been  
built with the end user in mind.*

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