



POWER AND PERFORMANCE DESIGNED FOR EXTREME ENVIRONMENTS

TETRA ATEX SOLUTIONS BRIEF





THE IMPORTANCE OF ATEX

Our modern lifestyles are only possible thanks to large-scale power generation and distribution, efficient transportation and advanced manufacturing processes. We all rely on these industries to live the way we do, but they are often hazardous environments, generating vapours, gases and particles that can be highly explosive when mixed with air. Industries such as oil and gas exploration, extraction, refining and distribution, chemical production, manufacturing and open cast mining all produce potentially hazardous substances. But they all rely on effective communications to make their operations efficient. In the same way, Fire and Rescue services that respond to incidents in such environments also rely on effective communications.

However, the use of electronic equipment under these conditions can potentially cause these substances to combust, leading to catastrophic results. The ATEX and IECEx regulations aim to minimise the risk within these potentially explosive environments by defining rigid parameters that all equipment should meet. Within the European Union, it is a legal requirement for equipment being operated within potentially explosive environments to meet the ATEX Directives, and other companies and countries around the world are also adopting the same standards to help protect both their workers and their physical assets.

THE ATEX STANDARD

The ATEX safety regulations apply to the individual elements that make up a communications solutions - and also to the system as a whole. There is a common misconception that two separately certified pieces of equipment when connected together will still meet the ATEX requirements, but this is not necessarily true.

Motorola's ATEX radios and accessories are tested together - as a complete solution. So that you can be sure the full radio communications solution meets both the ATEX and IECEx regulations. This means that the new MTP8000Ex Series TETRA radios and the Active Noise Cancelling RSM have been tested and approved as a complete ATEX and IECEx communications solution when used together.

**MOTOROLA'S ATEX RADIOS
AND ACCESSORIES ARE
TESTED TOGETHER - AS A
COMPLETE SOLUTION**



A COMPLETE ATEX SOLUTION

Hazardous environments are often harsh and noisy places to work. This means that communications equipment, as well as meeting the ATEX and IECEx safety standards, also needs to be able to withstand the hard knocks of everyday use and be loud enough and clear enough to be heard against the loudest background noise. The new MTP8000Ex Series TETRA ATEX radios and the new Active Noise Cancelling Remote Speaker Microphone (RSM) meet all of these challenges and together provide a complete ATEX communications solution for workers in these loud, harsh and hazardous environments.



MTP8000Ex SERIES AND TETRA ATEX RADIOS

The MTP8000Ex Series sets a new standard in TETRA ATEX radios, giving workers the ability to work safer, work smarter and work anywhere with powerful audio, enhanced coverage, extended battery life, greater ruggedness, integrated Bluetooth wireless technology, advanced ergonomics and increased usability. Meeting the latest ATEX and IECEx standards, this next generation of TETRA ATEX radios represents a significant step forward in improving worker safety, communications and efficiency.





MTP8000Ex Series REDEFINING THE ATEX RADIO

INDUSTRIAL ACCESSORIES FOR THE MTP8000Ex

ACTIVE NOISE CANCELLING RSM



Communicate in the most demanding PetroChem and Industrial environments. Two PTTs (side and front), High/low volume control, emergency button, 1 programmable button. Supports Peltor helmet comms and 3.5mm discreet listening accessories.



TACTICAL HEADSETS*

For operations in noisy environments. Active noise cancellation protects hearing while maintaining peripheral listening and face-to-face conversations.

TWIN CUP HEADSETS*

For operations in very noisy environments. Provides the highest level of hearing protection with two layers of noise attenuation in each ear cup.



3.5MM ACOUSTIC TUBE

For in-ear audio, the 3.5mm listen only acoustic tube is secured to the Automatic Noise Cancelling RSM with push, twist and lock connection.



*Wired and wireless accessories available

MTP8000Ex SERIES KEY FEATURES



LOUD AND CLEAR AUDIO

The MTP8000Ex Series is optimised for excellent audio performance in all types of noisy environments. Audio through both the speaker and accessories is clearer, even at full volume, and the user can be heard clearly against the loudest background noise.



INTEGRATED BLUETOOTH WIRELESS TECHNOLOGY

Secure Bluetooth Wireless technology is integrated in to the MTP8000Ex Series, ensuring that a range of wireless accessories and collaborative devices can be securely and reliably paired with the radios.



ENHANCED COVERAGE

High receiver sensitivity and high transmit power gives the MTP8000Ex Series greater coverage and enhanced in-building performance. For ultimate safety, the radio is fitted with an LED coverage indicator at the base of the antenna, alerting the user when coverage is poor.



ADVANCED ERGONOMICS

The MTP8000Ex Series has been engineered to redefine usability, from the T-Bar profile to the exaggerated control knob, tactile keypad, enlarged emergency button and textured PTT button.



RUGGED DESIGN

The MTP8000Ex Series radios are built to work in the toughest and most hazardous environments, in both the cold and wet or the dust and heat, with IP65, IP66 and IP67 ratings.



EXTENDED BATTERY LIFE

With an extended battery life in excess of 16 hours, workers can be confident that the MTP8000Ex Series radios will be ready for a longer shift in the event of emergencies or unplanned situations.



EASIER TO USE

With intuitive user interface, innovative nameplate, large main display and the secondary top display making it easier to see emergency notifications, talk group status or battery condition, the MTP8000Ex Series is designed to be easier to use.



THE ACTIVE NOISE CANCELLING RSM

The Active Noise Cancelling RSM has been designed specifically for use in hazardous environments - meeting the latest ATEX and IECEx standards - and to deal with the harsh and noisy conditions normally found in such environments. For this reason it is the perfect partner for the MTP8000Ex Series TETRA ATEX radios.

Built for hazardous environments and for use with protective clothing and heavy gloves, the Active Noise Cancelling RSM offers large front and side PTT buttons, volume toggle control, programmable button, dedicated orange emergency button and 3.5mm earpiece connector, all in an IP67 waterproof housing. The Active Noise Cancelling RSM also hosts a Nexus socket, to allow connection to a large range of 3rd party headset accessories to provide users with a complete communications solution.



FIRE ACCESSORIES FOR THE MTP8000Ex

ACTIVE NOISE CANCELLING RSM



Communicate in the most demanding Fire Ground environments. Two PTTs (side and front), High/low volume control, emergency button, 1 programmable button. Supports Dräger and Savox helmet comms and 3.5mm discreet listening accessories.

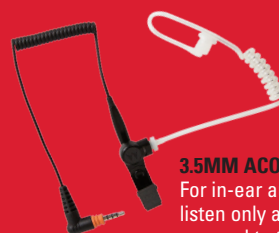
Dräger FPS COM PLUS

Includes integrated microphone and ear piece. Plugs directly into the Active Noise Cancelling RSM Nexus socket for optimised transmit and receive audio.



SAVOX HC-1

Helmet communications with HC-1 bone conductive microphone and ear piece.



3.5MM ACOUSTIC TUBE

For in-ear audio, the 3.5mm listen only acoustic tube is secured to the Automatic Noise Cancelling RSM with push, twist and lock connection.

ACTIVE NOISE CANCELLING RSM

KEY FEATURES



ACTIVE NOISE CANCELLING SYSTEM

Uses Digital Signal Processing combined with unique software algorithms to filter out background noise, ensuring only your voice is transmitted.



EMERGENCY BUTTON

In emergency situations, the dedicated orange Emergency button located at the top of the Active Noise Cancelling RSM is easily accessible when you need to alert others or call for help.



PROGRAMMABLE BUTTON

A dual-function programmable button is located on the side of the RSM. The button can be programmed for long or short press to provide quick access to commonly used radio functions.



NEXUS CONNECTION

The Nexus socket supports a range of headsets from 3rd party suppliers. When connected to the Active Noise Cancelling RSM these headsets are considered a part of the communication system and must be ATEX/IECEx approved as a complete system.



LOUD VOLUME

Front PTT button hides a large speaker delivering high volume levels, and the volume toggle switch on the top of the RSM makes adjusting volume level simple.



DUAL PUSH-TO-TALK BUTTONS

Designed to be easy-to-use, even when wearing gloves. For this reason it has two large PTT buttons, one located on the side and one on the front of the device, making sure it is always easy to use Push-To-Talk.



3.5MM CONNECTION

Twist and lock 3.5mm socket facilitates connection to an earpiece, maintaining the IP67 rating and ensuring it will not disconnect accidentally. When not in use, the socket is protected with a slide lock cover to keep out water and dust.



STANDARD ACCESSORIES FOR THE MTP8000Ex



SINGLE UNIT CHARGERS

Designed for quick and easy charging and to maximise battery life performance. IMPRES battery must never be carried out within the hazardous area or when the radio is switched on.

BELT CLIP

Securely attaches the radio to a belt of up to 2.5 inches wide.



CARRY CASES

Protects the radio from being knocked, dropped or mislaid. Can be worn on a belt or shoulder strap for extra convenience and safety.

VEHICLE CHARGER

Designed for permanent installation in a vehicle. Charges and optimises battery life performance on the go.





A COMPLETE SOLUTION

When operating in hazardous environments, users need a complete communication solution they can trust to get the message through, in bad coverage and against the loudest background noise, to be easy to use and to meet the latest ATEX and IECEx safety standards.

The MTP8000Ex Series TETRA ATEX radios have loud and clear audio even at full volume and against the noisiest backgrounds. High receiver sensitivity and high transmit power give the MTP8000Ex Series enhanced coverage. The rugged design and IP67 rating mean the radios are built to work in the toughest environments. The advanced ergonomics, from the T-bar grip to the tactile keypad mean it is easier to use in protective clothing and heavy gloves.

The Active Noise Cancelling RSM's noise cancelling microphone and Digital Signal Processing reduces transmitted background noise. The powerful built-in speaker makes hearing received messages easier and in louder environments. The 3.5mm and Nexus connectors allow the use of approved earpieces and headsets for improved audio. Its controls have been designed for ease of use, even when wearing gloves and the rugged IP67 housing can withstand the knocks of everyday use.

Together the new MTP8000Ex Series TETRA radio and the Active Noise Cancelling RSM provide a complete ATEX communications solution, meeting the unique needs of workers in hazardous environments. They are exactly what they need to get the job done.

For more information please visit
[**www.motorolasolutions.com/MTP8000Ex**](http://www.motorolasolutions.com/MTP8000Ex)

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