MTP850Ex

IECEx and ATEX TETRA radio
When safety is your driving force

Motorola's MTP850Ex TETRA portable radio provides high quality communication with comprehensive user safety. Its class leading ATEX and IECEx certification meets the world's most vigorous safety standards for potentially explosive gas and dust atmospheres.

Motorola is a world leader in the development and deployment of TETRA communication solutions, and the MTP850Ex radio delivers safe and reliable communications with a powerful set of features, which harness the capability of TETRA.

ATEX & IECEx

Approved for use in oil, gas and dusty environments.

High performance communication

The MTP850Ex delivers best-in-class audio which lets you hear and be heard in noisy environments. The MTP850Ex has a high level of robustness specifically designed for industrial environments.

- Superior digital voice clarity.
- Integrated trunked voice (group and one-to-one).
- Caller ID and private talk groups.
- Telephone interconnect.

Simple but powerful user interface

- Simplified keypad with large buttons makes the MTP850Ex easy to use with gloves.
- Large scalable display fonts and icons facilitate operations in environments with limited visibility.
- Wide range of language options.

Data applications capability

- Multi-slot packet data enables rapid access to critical information in the field.
- Applications are further enhanced with the ability to have simultaneous short data service (SDS) and multi-slot packet data services via TNP1 protocol.

Comprehensive user safety

Motorola imposes a harsh testing regime on all new radios. The MTP850Ex has been fully tested for the demanding requirements for intrinsically safe radios in explosive gas and dust environments, as well as shock and water resistance.

The MTP850Ex can be used in potentially explosive gas and dust environments due to its ATEX and IECEx certification – including gas zone 1 and 2, and dust zone 21 and 22. Operational safety is further enhanced with a range of features including:

- Emergency button.
- In-built GPS to ensure employees can be located quickly and help can be sent in an emergency.
- "Man down" alarm to automatically trigger an emergency procedure if the carrier of the radio falls down or remains motionless for a pre-defined period.
- Fully certified accessories.

Fully certified accessories – ATEX and IECEx

Motorola MTP850Ex accessories have been fully tested to meet ATEX and IECEx standards. Genuine Motorola accessories are designed to enhance the performance of the radio and can be used with confidence in potentially explosive gas and dust areas.

The benefits and assurance of the MTP850Ex's ATEX and IECEx certification will be invalidated if non-approved accessories are used with the radio.

**Over-the-head heavy duty headset
PMLN5389**

**Behind-the-head lightweight headset
PMLN5392**

**Hard leather case
PMLN5287**

Remote speaker microphone with volume control PMMN4058

**Throat microphone with 80mm PTT
PMMN4063**

**IMPRES multi-unit charger
with display
WPLN4195**

IMPRES multi-unit charger, no display,
also available WPLN4190

**IMPRES single-unit
charger
PMLN4199**

Also available:

Behind-the-head heavy duty headset	PMLN5390	Dust cover	PMLN5419
Over-the-head lightweight headset	PMLN5391	Shoulder wearing device	PMLN5004
ATEX Battery Li-Ion 7.2V 725 mAh	NNTN7383	Shoulder strap	NTN5243
Whip antenna	85012000001	Belt clip (2.5 inch)	PMLN5134
Stubby antenna	8575277M02	RS232 data cable	PMLN5237
Soft leather carry case	PMLN5288	USB data cable	PMLN5235

Designed for the mission

The MTP850Ex is one of the latest products that embodies the practice of designing products that are Second Nature in their operation.

Motorola has integrated human response factors into the design of its public safety communications equipment for more than 25 years. For instance, Motorola was the first to locate the emergency button on its radios at the bottom of the antenna, making it easy for the operator to find it, feel it, without even looking down in an emergency.

Motorola also ensures that the buttons controlling the most critical functions are highly accessible for public safety users. "Volume, push-to-talk and

channel controls are the three most important features of a radio. In a Motorola radio, those three controls will never be demoted to a user tree," says Mark Palmer, design integration manager of Human Factors Design Research and User Interface Design at Motorola. "That means that under high stress situations, individuals don't even have to think about how to access them. In essence, we give people information in a way in which they can process it."

In the case of the MTP850Ex this focus on the mission has resulted in a user interface that is easy to see, audio that is easy to hear in loud industrial environments, and simple controls which can be used when wearing thick gloves.

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