

ATEX Terminal - MTP850Ex

High performance communication & protection

THIS PRESENTATION IS DESIGNED FOR INITIAL CUSTOMER OVERVIEW OF MTP850Ex TO BE PRESENTATED BY SALES PEOPLE, PRE SALES TECHNICAL SUPPORT ETC.

IF YOU ARE REQUIRED TO PROVIDE A COPY TO YOUR CUSTOMER PLEASE CONVERT TO PDF FORMAT

Motorola ATEX TETRA Terminal



Session Content

Communicate with safety

- What are the ATEX and IEC Ex standards ?
- User environments for the Motorola ATEX Device

Motorola MTP850Ex ATEX TETRA Terminal

- Key Features and Benefits
- User Accessories
- User Applications and Case Studies



What are the ATEX / IEC Ex standards?



ATEX Standard

ATmosphères EXplosibles European Standard

IECEx Standard corresponding International Standard

Devices approved to these standards are designed to operate in working environments where there could be risk of explosive gas or dust

Approved devices provide additional user safety protection when using communication and other equipment in these type of working conditions

Motorola TETRA ATEX Terminal meets both the ATEX and IECEx Standards



User environments that require ATEX



Public Safety Teams / Military / Coastguard

- Incidents with high heat, smoke and dust
- Incidents dealing with fuel, gas & other explosive substances
- Bomb disposal
- Container searching at country entry ports



Oil / Gas Industry

- Environments with high risk of explosive gas & flammable liquids
- Oil fields, oil rigs, gas fields
- Gas & oil pipelines
- Oil refineries
- Oil tankers, road tankers



Public Utilities (Gas)

- Environments with high risk of explosive gas
- Gas Pipelines
- Gas storage
- Gas industrial appliances
- Gas domestic appliances



Industrial Manufacture

- Environments with risk of explosive dust, gas or flammable liquids
- Fuel manufacturers
- Chemical plants
- Pharmaceutical industry
- Food processors



Motorola ATEX TETRA Terminal



High Performing Communication

- TETRA voice and data capability
- Leadership in speaker audio quality for high noise environments
- Full range of ATEX standard accessories

High User Safety

- ATEX explosive gas and dust approvals
- Large key pad format for use with protective gloves
- GPS user location for C&C monitoring
- Integrated man down alarm





ATEX Terminal - MTP850Ex

Key Features and Benefits

High Performing Communication



Intrinsically Safe Communication

An intrinsically safe TETRA portable radio designed to be operated in potentially explosive environments (gas and/or dust) providing safe and reliable communication

Data Applications Capability*

Support of WAP* plus simultaneous Short Data Service (SDS) and Multi-Slot packet data (MSPD)* services via TNP1* protocol.

Best in Class Audio

Maintains audio performance in the typical noisy environments where specialist users from industry or public safety operate



^{*} Some features and services are optional and may require additional software licenses and / or subject to network operator support

High User Safety



Experience

Motorola has strong experience of producing ATEX analog two-way radios combined with its proven TETRA terminal portfolio

Simplified Keypad with Large Buttons

Easy to use with gloves, facilitates operation in difficult environments with limited visibility

Simplified User Interface - Large Icons/Fonts

Ensures easy access to critical features



Wide range of Languages/Keypads

Languages including: Arabic, Chinese Simplified, Chinese Traditional, Dutch, English, French, German, Greek, Hungarian, Italian, Korean, Lithuanian, Norwegian, Portuguese Russian, Spanish and Swedish.

High User Safety



GPS Location Services*

A state of the art integrated GPS receiver provides ability to locate personnel thereby improving user safety and resource management

Man-Down*

A fully integrated internal Man-Down solution triggers an emergency procedure when the carrier of the radio device does not move any more and/or has fallen down



^{*} Some features and services are optional and may require additional software licenses and / or subject to network operator support



European and International Standards Compliance

European

MTP850Ex Enhanced	ATEX Marking GAS	ATEX Marking DUST
	II 2G Ex ib IIC T4	II 2D Ex tD A21 IP6x ib D21 T90°C

International

	IECEx Marking GAS	IECEx Marking DUST
MTP850Ex Enhanced	Ex ib IIC T4 (Approved for Zone 1&2, Equipment Group II, Gas Group C, Temperature Class T4, -20oC to +50oC)	Ex tD A21 IP6x ib D21 T90°C (Approved for Zone 21&22, Equipment Group II)





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Accessories - Enhanced User Communication

MTP850Ex – ATEX Accessory Portfolio

Headsets



Over the Head Light Weight Headset



Behind the Head Light Weight Headset



Over the Head Heavy Duty Headset



Behind the Head Heavy Duty Headset



Audio Accessories		
ATEX Marking GAS	II 2G Ex ib IIC T4	
ATEX Marking DUST	II 2D Ex tD A21 IP6x T90°C	

MTP850Ex - ATEX Accessory Portfolio

Microphones



Skull Microphone System







Remote Speaker Microphone



Audio Accessories			
ATEX Marking GAS	II 2G Ex ib IIC T4		
ATEX Marking DUST	II 2D Ex tD A21 IP6x T90°C		

MTP850Ex - ATEX Accessory Portfolio

Power Charging







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User Interface

MTP850Ex - User Interface Motorola ATEX TETRA Terminal





MTP850Ex - User Interface Motorola ATEX TETRA Terminal



Emergency Button





Motorola MTP850Ex – Summary

Motorola ATEX TETRA Terminal



High Performing Communication

- TETRA voice and data capability
- Leading speaker audio quality
- Full range of ATEX accessories

High User Safety

- ATEX explosive gas and dust approvals
- Large key pad format
- Large icon screen menu
- GPS user location for C&C monitoring
- In-built man down alarm

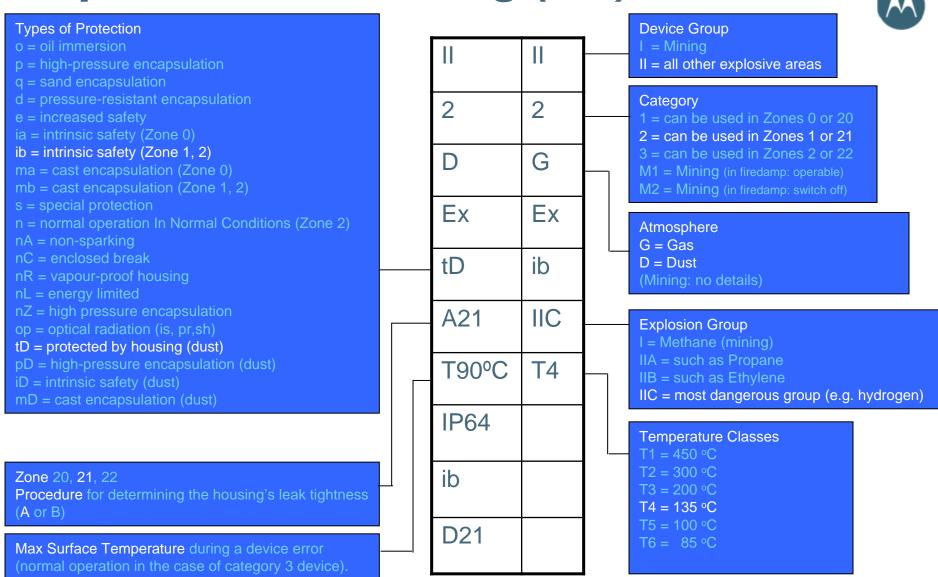




ATEX Terminal - MTP850Ex

ATEX Marking Overview

Help on ATEX Marking (1/2)



Help on ATEX Marking (2/2)



	Ш	П	
	2	2	
	D	G	
	Ex	Ex	
	tD	ib	
Ingress Protection IPdw d: contact and foreign body protection 5 = dust deposits 6 = dust penetration w: water protection 0 = no protection 1 = vertical water drip 2 = 15°C water drip	A21	IIC	
	T90°C	T4	
	IP64		
3 = water spray 4 = water splash 5 = water jet	ib		ib D21: protection for antenna circuit
6 = strong water jet7 = temporary immersion8 = continous immersion	D21		ib = intrinsic safety D21 = Dust Zone 21