

MTP810 Ex

ATEX TETRA Terminal

High performing communication and user safety



Key Features

High Performing Communication

- Strong rugged design for optimum reliability in harsh conditions
- Powerful, high quality audio in most demanding environments
- Full range of supporting ATEX certified accessories to tailor customize solution

Comprehensive User Safety

- ATEX & IEC-Ex gas and dust approvals
- Integrated GPS for user location
- Internal "Man Down" alarm

Part of Motorola's market leading range of ATEX TETRA terminals, the MTP810 Ex provides high quality communication with comprehensive user safety when in environments containing potentially explosive atmospheres.

Motorola is a world leader in the development and deployment of TETRA communication solutions, and the MTP810 Ex ATEX TETRA radio delivers safe and reliable communications for users with a powerful set of features to harness the capability of TETRA.

High Performance Communication

The MTP810 Ex delivers best in class audio performance in the typical noisy environments where specialist users from industry or public safety operate.

Comprehensive User Safety

The MTP810Ex can be used in explosive environments due to its high levels of protection. Operational safety is further enhanced with a range of features including:

- state of the art integrated GPS receiver providing the ability to locate personnel through the radio, improving user safety and resource management.
- Internal "Man Down" alert this fully integrated solution triggers an emergency procedure when the carrier of the radio remains motionless for a set period or falls down.

Simple but Powerful User Interface

The simplified keypad with large button surface makes the MTP810 Ex easy to use with gloves. Combined with the large scalable display fonts and icons, the MTP810 Ex facilitates operation in difficult environments with limited visibility.

Data Applications Capability

The integrated WAP browser and Multi-Slot packet data enables rapid access to critical information in the field. Applications are further enhanced with ability to have simultaneous Short Data Service (SDS) and Multi-Slot packet data services via TNP1 protocol.

MTP810 Ex ATEX TETRA Handportable

ATEX SPECIFICATIONS			
	Gas	II 2G Ex ib IIA T3	
ATEX Rating	Dust	II 3D Ex ibD 22 IP5x T90°C	
	Gas	Ex ib IIA T3 (Approved for Zone 1 & 2, Equipment Group II, Gas Group A, Temperature Class T3, Ambient temp-20°C to +50°C)	
IEC EX Rating	Dust	Ex ibD 22 IP5x T90°C (Approved for Zone 22, Equipment Group II)	

Specifications

PHYSICAL			ENVIRONMENTAL SPECIFICATIONS		
Dimensions (mm)	usions (mm) 135 x 55 x 38		On areting Tampareture (%C)	-20°C to +50°C (Hazardous Environments)	
Weight (typ) g		400	Operating Temperature (°C)		
Battery		725 mAh, 7,2V	Storage Temperature (°C)		-40°C to +85°C (Mil Std 810C, D)
		12 hrs, typ, 5/5/90 duty cycle	Humidity	E	TS 300 019-1-5 Class 5.1 and 5.2
			Dust and Water		IP54
RF SPECIFICAT	ions		Shock, drop and vibration		ETS 300 019-1-5 Class 5M2
requency Bands (N	ИНz)	380 – 430			
Switching Bandwidth (MHz) 50		50	GPS SPECIFICATIONS		
RF Channel Bandwidth (kHz)		25	Simultaneous Satellites		12
Transmitter RF Power		1W	Mode of Operation	Autonomous or assisted (A-GPS	
RF Power Control		3 Steps of 5 dB	GPS Antenna		Integrated in TETRA antenna
RF Power Level Acc	uracy	+/- db 2	Sensitivity	-152 dBm / -182 dBw	
eceiver Class A &		A & B	Accuracy	5 meter (50% probable	
Receiver Static Sens	sitivity (dBm)	-112 minimum, -115 typical	Location Protocols		ETSI LIP
Receiver Dynamic S	ensitivity (dBm)	-103 minimum, -107 typical			Motorola LRRP
VOICE SERVICE	S		DATA SERVICES		
Talkgroups	2048 (TMO) & 1024	(DMO)	Status Messaging	Alias Messages	100
Phone Book	1000 persons		Short Data Service (SDS)	Inbox	20 messages
Scan Lists	40 lists, 20 talkgroup	s / list		Target Address	Individual or Group Address
TMO Services	Group Call	Late entry		Voice Interaction	Send / receive during calls
	Private Call	Half / Full Duplex	Packet Data	Single or Multi Slot	7.2kbps - 28.8 kbps gross
	Telephony	Full Duplex	WAP	Integrated Openwave browser	
	DGNA	up to 2047 groups		WAP 1.2.x and WAP 2.	.0 compatibility for UDP/IP Stack
DMO Services	Group Call	Late entry	PEI	AT Commands	
	Private Call			TNP1; enables simultar	neous SDS & PD
	Compatibility	Gateway & Repeater			
Emergency	Smart Emergency	DMO / TMO / DMO to TMO	SECURITY FEATURES		
	Hot Mic	Configurable timers	Air Interface Encryption	Algorithms	TEA1, TEA2, TEA3
	Location	Send on emergency		Security Classes	Class1 (clear), Class2 SCK),
	Target Address	Individual or Group			Class3 (DCK, CCK & GCK*)
	Alarm	Emergency Status	Key Provisioning	Secure provisioning tool (key variable loader KV	
Other Services		Ambience Listening		Over the A	Air Re-keying (OTAR) for SCK and
		Transmit Inhibit			Class 3 (CCK & GCK*)
			Network Access	-	Temporary Enable / Disable (Stun)

PERIPHERALS AND ACCESSORIES

RS232 PEI For connection of data devices

For programming and audio accessory connectivity

INTERFACES

Rugged Accessory

Audio	A wide range of audio accessories is available including ATEX certified speaker mics and headsets.
Power & Charging	Solutions for desk top charging and multi-way chargers
Carrying	A range of carrying solutions is available including carry cases, carry strap and belt clips
Programming	Comprehensive solutions available for radio configuration and encryption key loading via Motorola KVL, including support for the Motorola Integrated Terminals Management solution

Authentication



Permanent Enable / Disable (Kill)

Infrastructure initiated and made mutual by terminal