

MTP850Ex ATEX TETRA Terminal

High performing communication and user safety



Part of Motorola's market leading range of ATEX TETRA terminals, the MTP850Ex provides high quality communication with comprehensive user safety and class leading ATEX specifications allowing use when in environments containing potentially explosive gas and dust.

Motorola is a world leader in the development and deployment of TETRA communication solutions, and the MTP850Ex ATEX TETRA radios deliver safe and reliable communications for users with a powerful set of features to harness the capability of TETRA.

High Performance Communication

The MTP850Ex delivers best in class audio performance in the typical noisy environments where specialist users from industry or public safety operate.

Comprehensive User Safety

The MTP850Ex can be used in explosive gas and dust environments due to its high level 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 MTP850Ex easy to use with gloves. Combined with the large scalable display fonts and icons, the MTP850Ex 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 the ability to have simultaneous Short Data Service (SDS) and Multi-Slot packet data services via the TNP1 protocol.

KEY FEATURES

High Performing Communication

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

Comprehensive User Safety

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

MTP850Ex ATEX TETRA PORTABLE **SPECIFICATION SHEET**

ATEX SPECIFICATIONS

ATEX Rating			IEC Ex Rating	IEC Ex Rating		
	Gas	Dust	Gas	Dust		
MTP850Ex-2D	II 2G Ex ib IIC T4	II 2D Ex ibD 21 IP6x T90°C	Ex ib IIC T4	Ex ibD 21	IP6x T90°C	
			(Approved for Zone 1 & 2, (Approved for Zone 21 & 22, Equipment Group II) Equipment Group II, Gas Group C, Temperature Class T4, -20°C to +50°C)			
SPECIFICATIONS						
PHYSICAL			INTERFACES			
Dimensions (mm)	135 x 55 x 38		RS232 PEI	For connection of data devices		
Weight (typ) g	nt (typ) g 400		Rugged Accessory	For programming and	audio accessory connectivity	
Battery	725 mAl	h, 7,2V				
	12 hrs, typ, 5/5/90 duty cycle		ENVIRONMENTAL SPECIFICATIONS			
			Operating Temperature (°C) -20°C to +50°C (Hazardous Environments)			
RF SPECIFICATIONS			-20°C to +60°C (Non-Hazardous Environments)			
Frequency Bands (MF			Storage Temperature (°C)	-40°C to +85°C (MIL		
	806 – 870		Humidity	ETS 300 019-1-7 Class 7.3E		
Switching Bandwidth			Dust and Water	IP65 per IEC 60529		
		806-825, RX:851-870)	Shock, drop and vibration	ETS 300 019-1-7 Class	s 5M3 (MIL-STD 810 D/E/F)	
Switching Bandwidth						
19 (851-870)		GPS SPECIFICATIONS	10			
RF Channel Bandwidt	. ,		Simultaneous Satellites	12	-4 (A CDC)	
Transmitter RF Power RF Power Control		of E dD	Mode of Operation GPS Antenna	Autonomous or assisted (A-GPS) Integrated in TETRA antenna		
RF Power Control	3 Steps	01 5 dB				
Receiver Class	· ·		Sensitivity	-152 dBm / -182 dBW		
	eceiver Class A & B eceiver Static Sensitivity (dBm) -112 minimum, -115 typical		Accuracy Location Protocols	5 meter (50% protable)** ETSI LIP		
Receiver Dynamic Ser		nimum, -107 typical	Editation Frotocols	Motorola LRRP		
Trederver Byttarrile del	notavity (dBiri)	iiiiiiii, 107 typicai		Wotorold Erriti		
VOICE SERVICES			DATA SERVICES			
Talkgroups	2048 (TMO) & 1024 (DI	MO)	Status Messaging	Alias Messages	400	
Phone Book	1000 persons		Short Data Service (SDS)	Inbox	100 messages	
Scan Lists	40 lists, 20 talkgroups /	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	2.0 compatibility for UDP/IP Stack	
DMO Services	Group Call	Late entry	PEI	AT Commands		
	Private Call			TNP1; enables simulta	aneous 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		ool (key variable loader KVL)	
Language Support		(Simplified and Traditional)		Over the Air Re-keying (OTAR) for SCK and Class 3		
Other Services	Ambience Listening	Transmit Inhibit		(CCK & GCK*)	11. (0:)	
			Network Access	Temporary Enable / Disable (Stun)		
			A - the - the - th	Permanent Enable / Disable (Kill) Infrastructure initiated and made mutual by terminal		
			Authentication	Intrastructure initiated	and made mutual by terminal	
PERIPHERALS AND	ACCESSORIES					
Audio		o 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					
	/ 9 0		A complete of the section			

The information contained in this brochure maybe subjected to change without prior notice.

Company Info: Comm -Co Kreekzoom 9 4561 GX Hulst

Tel: +3114-370030 Fax:+3114-370029

E-mail: Info@comm-co.com

Website: http://www.comm-co.com

www.atexshop.com www.ruggedshop.nl www.webpainter.nl www.eyecctv.nl

^{*}Product features may be subjected to infrastructure support

^{*}Selected features are subjected to optional or future software upgrade
**Measured under specific controlled environment