

- for safe operation in hazardous areas



TP8000EX Atlanta is a unique product which combines mechanical robustness and the latest state of the art radio technology into a hand portable radio with a userfriendly design.

The programming of all user parameters can be set directly from the keyboard or from a PC through an infrared interface. The design of the portable radio is robust and the radio is waterproof (IP67), it can therefore be used as the ultimate communication tool within chemical industries, fire brigades, emergency & rescue services, airports, off-shore industries, etc.

The TP8000EX Atlanta is approved for use within petro / chemical environments in which gases with a very low ignition temperature are available - T5 and T6 approved.



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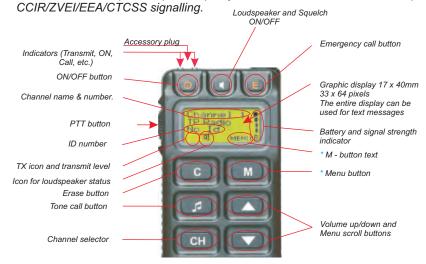


Hand-Portable Radio

- for safe operation in hazardous areas

TP8000Ex Atlants is a radio designed for two-way voice and data communication within the VHF and UHF PMR frequency bands. The combination of a good looking design, mechanical robustness, user friendliness and the latest state of the art radio technology turns **TP8000Ex** Atlants into a unique product.

TP8000Ex Allantis is programmable with the latest types of signalling protocols and can at the same time be programmed for use in systems designed with all the more frequent types of tone signalling schemes. Besides being ATEX approved the TP8000Ex Atlantis is also designed according to the IP67 specifications. The radio can therefore withstand submersion into water to a depth of 1 meter. The compact design of the radio combined with a menu driven user interface makes the use of the radio very simple. As standard, TP8000Ex Atlantis contains soft- and hardware for programming of up to 127 radio channels, DTMF-tone encoder, FFSK en-/decoder (without protocol), adjustment of Transmitter Power Output in 4-steps, and Tone en-/decoder for systems using



* The following menu points are accessable from the key-board :

Telephone number bank for stored telephone numbers, data telegram, adjusting of Output Power, programming- and service menus

Sub-menus for the programming menu: Sub-menus for the setup and Service menu: Channel name and number, frequency, modulation, squelch and own ID Emergency tones, bar-graph functions, control of display light, internal /external loudspeaker and microphone, as well as software versions info.

Special facilities:

Waterproof: Can be submerged to 1 meter (Ip67)

Programing : Changing of parameters can be accomplished from the key-board as well as through an infrared PC connection

Graphic display: Clearly readable display showing a.o. Channel name and text message. Graphic display showing battery- and RSSI-level (signal strength)

Channel scanning: Up to 127 channels. Sequential or priority channel scan. Scan stop for squelch, tone or data.

Signalling : The radio is compatible with all normally used tone call systems.

TECHNICAL SPECIFICATIONS:

General data :	VHF	UHF I	UHF II	Transmitter :			
Frequency band Max. Number of channels Channel spacing		350- 410 MHz 127 2.5 / 20 / 25 KH	400 - 470 MHz 127 Iz	Output Power Transmission of spurious antenna and cabinet	Programable 0,2 - 0,5 - 1 - 2 Watt < 0,25 μW or - 36 dBm		
Frequency error		± 2 ppm		Max. Deviation	+/- 5 Khz / 25 KHz channel		
HF -bandwidth	60 MHz	70 MHz	38 MHz	Modulation distortion	< 5% @ ± 3,0 KHz		
Operation mode		i-Duplex (two-fre		Signal / noise relation	40 dB		
Antenna Impedance		50 Ohm	4	LF frequency response	300 - 3000 Hz + 6 dB / Octave		
Temperature range		-25 to +55° C		Er mequency reopense	COO COOCTIZ COURT COURT		
Dimensions incl.	H = 14	6, B = 61, D = 37	mm				
1100 mAh battery		, , , , ,		Power supply:			
Weight incl. 1100mAh		498 g.					
Battery and antenna		Ü		Operational time (fully charged battery and 2 W TX-output)	5 % Tx, 5 % Rx og 90 % Standby 1100 mAh battery : 10 hours		
Receiver :							
				Signalling :			
1. IF-frequency		45 MHz					
2. IF-frequency		450 KHz		CCIR, ZVEI, EEA & EIA	En- and decoder up to 3 sequencies of each		
Sensitivity at 20 dB SINA	D 0,6μV typ.	0,6μV typ.	0,6μV typ.	, , ,	8 tones, programable tone length, length of		
(EMF) (25 KHz channel s	pacing)		•		first tone & pre-ample. Individual call,		
at 12 dB SINAD EMF:	0,35µV typ.	0,35μV typ.	0,35 μV typ.		Group call, All call, Emergency call, Text call,		
LF output power		2 x 0,4 Watt			"Stun call" and "Wake-up call".		
LF distortion		< 10 %			,		
LF frequency response	300 - 30	00 Hz -6 dB / Oct	ave	CTCSS	En-/ Decoder.		
Signal / noise relation		> 45 dB			The channels can be programmed individually		
Co-Channel attenuation		- 8 dB			with different CTCSS tones.		
Neighbour channel select	tivity	> 70 dB		DTMF	Transmitter		
Attenuation of Spurious		> 70 dB		FFSK	Transmitter and Receiver : 1200 & 2400 bps		
Intermodulation selectivity	У	> 66 dB					
Blocking		> 100 dB					
Transmission of spurious	2 nW eq	uivalent to - 57 d	'Bm	Scanning :	Of up to 127 channels		
(antenna and cabinet)					Scan stop at detection of : Carrier,		
Squelch tresshold level	F	Programable			squelch or tone / data		

TP8000Ex Atlanta is approved according to the 1999/5/EF direktive. The relevant specifications are: ETS 300.086, 300.113 & 300.219. The radio is approved in accordance with EC direktive 89/336/EEC. Waterproof according to IP67.

CE 0539 II 2 G EEx ib IIC T5 / T6, Tamb < 40° C (ATEX)



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Dealer:			