

# ATEX TP9000EX THOR2 DIGITAL/ANALOG T4 RADIO

Zones 1, 2, 21, 22

Full catalogue available on our website: [www.inpratex.com](http://www.inpratex.com)

**ATEX COMMUNICATIONS**

**ZONES 1, 2 (gas) & 21, 22 (dust)**

TP9000EX is a unique product which combines mechanical robustness and the latest state of the art radio technology into a Hand Held Radio with a userfriendly design. This ATEX certified radio is IP67 waterproof and can be used as the ultimate communication tool within chemical industries, fire brigades, emergency & rescue services, airports, off-shore industries, etc.

The UHF version is type approved for On Board Communication according to EN 300 720 and fulfils the IEC 60945 marine standards. A perfect tool to fulfilment of the SOLAS requirement.

#### Key features:

- IP67 Waterproof
- 16+16+99 Channels
- Long operational time - 3450 mAh battery
- Power Output 2 Watt
- CTCSS, dcs
- OLED Display

DMR Tier 2 Compatible  
Antenna, Battery, Bolt Clip and Charger included



EU-Type Examination Certificate



#### ITEM REFERENCES


Model:	Channels:	Frequency / Band:	Bandwidth:	Article No.:
TP9000EX Thor2 VHF 64-88 MHz	16+16+99	VHF / 64-88 MHz	24 MHz	4C0601
TP9000EX Thor2 VHF 146-174 MHz	16+16+99	VHF / 146-174 MHz	28 MHz	4C0602
TP9000EX Thor2 UHF 406-470 MHz	16+16+99	UHF / 406-470MHz	64 MHz	4C0603

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## GENERAL TECHNICAL SPECIFICATIONS

Marking:	 I M2 EX ib I Mb II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T110°C Db
Certificate:	EU-Type Examination Certificate
According to the directives:	RoHS 2011/65/EU, MED 2014/90/EU & RED 2014/53/EU
Applied standards:	EN 62368, EN/IEC 60945, EN 301.489, EN 300.086 & EN300.720 (analog part)
Operating Temperature:	-20°C to +55°C
Classifications:	IP67 Waterproof / Exceeds MIL 810 c,d,e,f
Channel spacing:	12,5 / 20 / 25 KHz
Frequency error:	± 2 ppm
Operation mode:	Simplex / Semi-Duplex
Antenna impedance:	50 ohm
Weight:	260g
Dimensions:	H = 137, B = 64, D = 35mm
Operational time (fully charged battery & 2 W TX-output):	5 % TX, 5 % RX & 90 % Standby 3450 mAh battery: 10/14 hours
Signalling:	CTCSS / DSC
Side connector:	16 pin for accessories

## RECEIVER TECHNICAL SPECIFICATIONS

DMR sensitivity:	- 124 Dbm.
Sensitivity at 20 dB SINAD:	0,45 µV
(EMF) (25 KHz channel spacing) at 12 dB SINAD EMF:	0,3 µV
LF output power:	2 x 0,5 Watt
LF distortion:	< 10 %
LF frequency response:	300 - 3000 Hz
Signal / noise ratio:	45 dB
Co-Channel attenuation:	-3 dB
Neighbour channel selectivity:	> 70 dB
Attenuation of spurious:	> 70 dB
Intermodulation selectivity:	> 66 dB
Blocking:	> 90 dB
Transmission of spurious (antenna & cabinet):	2 nW equivalent to -57 dBm
Squelch treshold level:	Programmable

## TRANSMITTER TECHNICAL SPECIFICATIONS

Output Power:	Programmable 0.5 - 2 Watt
Transmission of spurious:	< 0,25 µW or - 36 dBm
Antenna & cabinet Max. Deviation:	± 5 KHz / 25 KHz channel
Modulation distortion:	< 5 % @ ± 3,0 KHz
Signal / noise relation:	45 dB
LF frequency response:	300 - 3000 Hz

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## ACCESSORIES

			
SCULL MIC HEADSET	HEADSET IN-EAR	HEADSET CONVERTER PLUG	BATTERY LI-ION
			
THROAT MIC HEADSET	HEADSET WITH BOOM MIC	HEADSET "SURVEILLANCE"	CLOSE-TALK
			
CHARGER	AC 100-240V	CARRY CASE	SHOULDER HARNESS
			
PTT			

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COMMUNICATION