

TP6000i MOTORCYCLE RADIO

- FOR VOICE & DATA



HIGHLIGHT

- FULL RF BANDWIDTH
68 - 88 MHz
135 - 174 MHz
350 - 410 MHz
400 - 470 MHz
- 8 DIGIT DIGITAL VOICE ENCRYPTION (ANALOG / DIGITAL / DIGITAL VOICE ENCRYPTION MODE)
- 1,200 / 2,400 BPS FFSK DATA (9,600 / 19,200 BPS GMSK DATA AS OPTION)
- TEMP. RANGE -25 °C TIL +55 °C
- DATA AND TONE AT THE SAME TIME
- DTMF, FFSK, CCIR, ZVEI, EEA & CTCSS SIGNALING,
- CHANNEL DEPENDENT TX POWER, CHANNEL DEPENDENT CTCSS, CHANNEL SCANNING, 127 CHANNELS
- SMS MESSAGE, ID MODE, ETC
- INDIVIDUAL CALL, GROUP CALL, ALL CALL, EMERGENCY/ALARM CALL, MESSAGE CALL, DATA CALL AND STUN AND WAKE-UP CALL
- PROGRAMMABLE FROM KEYPAD OR PC
- IP66 WATERPROOF CONTROL UNIT
- TRACKING VIA GPS LOCATION

The TP6000i for motorcycles is a standard TP6000i mobile transceiver with the waterproof BE905 Control unit. The control unit can be mounted directly on the radio or by distance from the radio unit via an RS232 controller interface.

The control unit is a watertight unit and features a large graphical display, alphanumerical keypad with function keys.

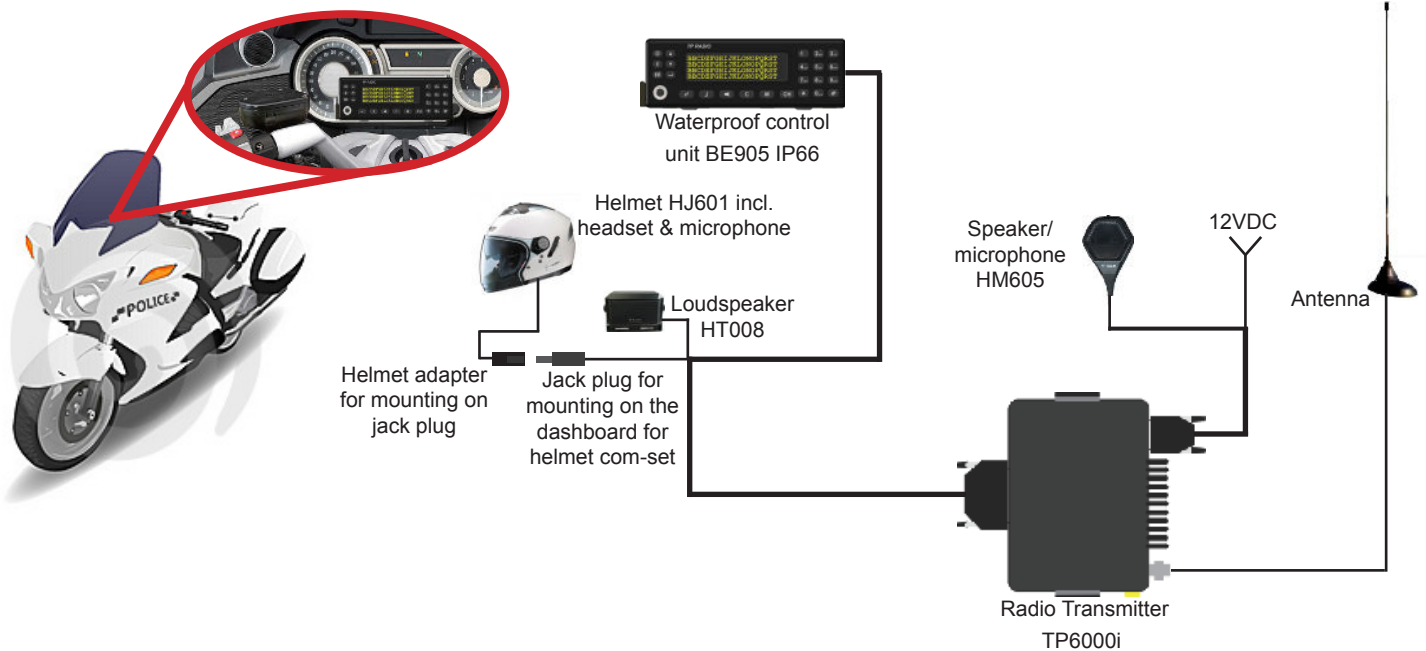
The TP6000i Transceiver unit comes as four models:

- Standard analog radio. (RE683/xxxi)
- Standard analog radio with built in GPS for tracking. (RE684/xxxi)
- Standard analog radio with digital voice encryption. (RE680/xxxi)
- Standard analog radio with digital voice encryption and built in GPS for tracking. (RE682/xxxi)

When using the TP Radio you are able to see in the display if the incoming signal is in analog, digital or in digital voice encryption mode.

Digital voice encryption is the answer, providing the highest level of voice security and the advantage of digital voice.

PROFESSIONAL RADIO COMMUNICATION



Specifications:

General

	UHF I	UHF II	VHF 2m	VHF 4m
Frequency Range	350-410 MHz	400-470 MHz	135-174 MHz	68-88 MHz
Number of channels	127	127	127	127
Channel spacing		12.5, or 20, 25 KHz		
Frequency error		± 2 ppm		
RF-bandwidth	60 MHz	70 MHz	38 MHz	20 MHz
Mode of operation	Simplex / Semi-duplex (two frequencysimplex)			
Antenna impedance	50 Ohm			
Temperature range	-25° to + 55°C			
Dimensions (transceiver only)	H. 155, W. 155, D. 37 mm			
Weight (transceiver only)	800g			

Receiver

1. Intermediate freq.		45 MHz		
2. Intermediate freq.		450 KHz		
Sensitivity @ 20 dB (25 KHz ch. spac.)	0.6 µV typ.	0.6 µV typ.	0.6 µV typ.	0.6 µV typ.
SINAD EMF (12 dB)	0.35 µV typ.	0.35 µV typ.	0.35 µV typ.	0.35 µV typ.
AF output power		4 W		
AF distortion		< 10 %		
AF freq. Response		300 - 3000 Hz - 6 dB / Octave		
Signal / noise ratio		> 45 dB		
Co-channel rejection		- 8 dB		
Adjacent channel selec.		> 73 dB		
Spurious rejection		> 75 dB		
Intermodulation sel.		> 70 dB		
Blocking		> 100 dB		
Spurious conducted		> - 60 dBm		
Spurious radiated		> -70 dBm		
Squelch level		Programmable		

Transmitter

Output power	Programmable in 4 steps 5 - 25 W
Spurious emission antenna and cabinet	< 0.25 µW or - 37 dBm
Max. Deviation	+/- 5 KHz / 25 KHz channel
Modulation distortion	< 5 % @ +/- 3.0 KHz
Signal / noise ratio	45 dB
AF freq. Response	300 - 3000 Hz + 6 dB octave
Power supply	13.2 V Nominal.
Current drain	@TX 25 W = > 6.5 A
Stand-by	>200 mA

Signalling

CCIR, ZVEI, EEA & EIA.	Encoder & decoder for up to 3 sequences of 8 tones, programmable tone length, length of first tone & pre-amplifier. Individual Call, Group Call, All Call, Emergency Call, Text Message Call, Radio Stun Call, Radio Wake-up Call.
CTCSS / DCS	Encoder & Decoder. Each channel can be programmed with different CTCSS tones.
DTMF	Encoder.
FSK	Encoder & decoder: 1,200 & 2,400 bps.
Data (Option)	GMSK modulator & demodulator for up to 9,600 / 19,200 bps.

Scanning

Up to 127 channels. Priority channel scan (star mode) or sequential scan mode. Scanning stop on: carrier detect or carrier and tone (or data) detect.

Option

8 digit Digital Scrambler

These specifications are in conformity with the European R&TTE Directive 1999/5/EC and meets the harmonized Standards EN 300 086, EN 300 113 & EN 300 489. CE approved according to the European EMC Directive 2004/108/EC

TP Radio reserve the right to amend specifications without prior notice.

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Dealer:

TP RADIO
-THE COMMUNICATION INNOVATORS

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