



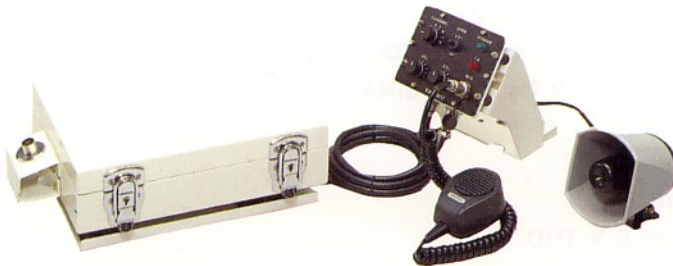
## VHF/UHF FM TRANSCEIVERS

**FTL-2007**

**FTL-7007**

**FTL-2007T**

**FTL-7007T**



The VHF FTL-2007 and UHF FTL-7007 are precision-engineered 2-way FM mobile transceivers offering flexible programmability and performance conforming to general European CEPT, British MPT and German FTZ specifications. Each model offers internally presettable power output up to 25 watts in a choice of wide bandwidth versions in either the VHF High Band or UHF Low and Mid Bands. Up to eight channels can be programmed, cloned or quickly reprogrammed using the FYG-4 EEPROM programmer, without opening the case. When used with the FP-8 AC Power Supply and MH-2<sup>BS</sup> Desktop Microphone, these sets also make excellent base stations.

Surface-mount chip components and modular circuit construction provide high reliability and easy servicing. High power audio output from the front panel loudspeaker allows easy listening even in noisy vehicles.

The optional FTS-14 CTCSS Subaudible Tone Squelch Unit provides a choice of 37 standard tones programmable independently for each transmit and receive channel frequency. The optional F5D-7A (ZVEI) and F5D-7B (CCIR) 5-Tone Units offer all-station front panel pushbutton selection for networks of up to 100 stations, or for networks of up to 1,000 stations by special order. One-digit transpond code selection is also available by special order for networks of up to 100 stations.

The FTL-2007T and FTL-7007T are special versions of these models designed for motorcycle installation.



# SPECIFICATIONS

# FTL-2007 FTL-7007

GENERAL	FTL-2007				FTL-7007			
Frequency Range (MHz)	Type A 134-146 Type AS1 140-153 Type B 146-160 Type BS1 153-167 Type C 160-174				Type A 400-420 Type AS1 410-430 Type DS1 440-460 Type D 450-470			
Specification	CEPT & MPT			FTZ	CEPT & MPT			FTZ
Channel Spacing (kHz)	12.5	20	25	20	12.5	20	25	20
Frequency Stability* (kHz)	±1.5	±2.0	±2.0	±1.6	±1.5	±2.5	±2.5	±2.5
Channels	8 Channels				8 Channels			
Emission Type	F3E				F3E			
Antenna Connector	M-Type (SO-239) Socket				M-Type (SO-239) Socket			
Antenna Impedance	50 Ω (Nominal)				50 Ω (Nominal)			
Audio Output Impedance	4~16 Ω				4~16 Ω			
Supply Voltage(Negative Ground)	10.8V to 15.6V DC				10.8V to 15.6V DC			
Current Consumption (Approx.)	Standby 0.3 A Recieve 0.45A Transmit 7.0 A/25 W 2.5 A/10 W 2.0 A/ 6 W				Standby 0.3 A Recieve 0.45A Transmit 7.0 A/25 W 3.0 A/10 W 2.0 A/ 6 W			
Operating Temperature Range*	-10/-20/-25°C to +55°C			+40°C	-10/-20/-25°C to +55°C			+40°C
Case Size (Approx.)	160 (W) × 50 (H) × 158 (D) mm				160 (W) × 50 (H) × 158 (D) mm			
Weight (Approx.)	1.5 kg				1.5 kg			
<b>TRANSMITTER</b>								
Power Output Modulation Method (W)	Up to 25 Watts, Variable Reactance (F3E)				Up to 25 Watts, Variable Reactance (F3E)			
Maximum Deviation (kHz)	±2.5	±4.0	±5.0	±4.0	±2.5	±4.0	±5.0	±4.0
Hum & Noise (dB)	Better than -40 @ 1 kHz				Better than -40 @ 1 kHz			
Modulation Distortion (%)	Less than 5% @ 1 kHz				Less than 5% @ 1 kHz			
Pre-Emphasis (dB/oct)	6				6			
Spurious Emissions (μW)	0.25			0.2	0.25			0.2
Microphone	600 Ω Dynamic				600 Ω Dynamic			
<b>RECEIVER</b>								
Circuit Type	Double Conversion Superheterodyne				Double Conversion Superheterodyne			
IF Frequencies	21.4 MHz & 455 kHz				54.5 MHz & 455 kHz			
Sensitivity 20 dB SINAD (μV EMF)	Better than 1.0				Better than 1.0			
Sensitivity 20 dB S/N (μV EMF)				Better than 1.0				Better than 1.0
Adjacent Channel Selectivity (dB)	Better than 60	Better than 70			Better than 60	Better than 70		
Spurious Rejection (dB)	Better than 70				Better than 70			
Intermodulation Rejection (dB)	Better than 70			Better than 66	Better than 70			Better than 66
De-Emphasis (dB/oct)	-6				-6			
Hum & Noise (dB)	Better than -40				Better than -40			
Audio Output (5% Distortion)	1.5 Watts at 1 kHz into 8 Ω				1.5 Watts at 1 kHz into 8 Ω			

\*or as required by local regulation

Specifications subject to change without notice.