

 **KENWOOD**

**2 METER
PORTABLE
TRANSCEIVER**

TR-2300



The TR-2300 is a compact 80CH FM transceiver designed for use in the 2 meter band. The TR-2300 is engineered with the latest techniques in all solid state construction. The small and light weight design of the TR-2300 offers you a versatile use.



- Full 2 MHz coverage in 25 kHz spacings – 80 channels capability. Plus one fixed AUX channel. Employs the digital phase lock loop circuitry of a C-MOS LSI.
- A high reliability 40-position channel selector selects the desired channel in two bands – the 144 and 145 MHz bands. Fully covers the 2 bands in 25 kHz steps: 40CH x 2 = 80CH
- As your club or private channel, an extra channel (crystal option) may be selected anywhere between 144 and 146MHz.
- Shifting transmit frequency 600 kHz down and a 1750 Hz tone oscillator are built-in for repeater operation on channels R0 through R9.
- Desirable transmit and receive performance characteristics, high dependability and modern PLL circuitry contribute to attaining a stable 1 watt transmit output with minimum spurious radiation.
- The high sensitivity design receiver section contains a combination of effective RF filters, providing optimum cross modulation rejection over the entire band.
- An extra low profile speaker uses a samarium-cobalt magnet to further reduce equipment size, while improving efficiency and reproduced sound clarity.
- The furnished one-quarter wavelength rod antenna can be stowed inside the unit. Simply replacing it with an optional helical antenna, RA-1. Also provided on the rear panel is a terminal for an external antenna which enables you to enjoy long distance communications during mobile operation or at home.
- Easy-access battery compartment is conveniently located on the rear panel. Simple to lock or unlock the battery case lid by using a slot.
- Dial illumination and AUX, ON-THE-AIR indicators are provided. The dial illumination as well as AUX, and ON-THE-AIR indicators of LEDs may be switched in or out separately with a 3-position selector on the rear panel as a battery saving feature.
- Accessories Furnished Carrying case, battery case, battery charger and earphone plug.
- Optional Accessories Ni-cad battery PB-15, helical antenna RA-1 and regulated power supply PS-6.

SPECIFICATIONS

GENERAL

Semiconductors:	Transistors 24
	FETs 7
	ICs 7
	Diodes 33
Frequency Range:	144.0 ~ 146.0 MHz
Built-in Channels:	25 kHz step
	144 MHz Band 144.0 ~ 144.975 MHz 40ch.
	145 MHz Band 145.0 ~ 145.975 MHz 40ch.
	AUX channel 1 channel
Repeater Frequency shift:	600 kHz (145 MHz Band)
Operating Temperature:	-20°C ~ +50°C (-4°F ~ +122°F)
Standard Operating Voltage:	External: 13 V DC Internal: Ni-Cd Battery x 10(12 V) UM-3 Dry Battery x 9(13.5 V)
Operating Voltage Range:	9.6 ~ 16 V DC

Grounding System:	Negative
Antenna Impedance:	50Ω
Power Consumption:	Receive (No Signal): Approx. 45 mA
	Transmit Approx. 450 mA(1W, 50Ω)
Dimensions:	122(W) x 51(H) x 175(D) mm
Weight:	Approx. 1.2 kg (2.64 lbs) (Ni-Cd battery 10 included)

TRANSMITTER SECTION

Type of Emission:	F3
RF Output Power:	1 W
Modulation:	Variable reactance phase modulation
Maximum Frequency Deviation:	±5 kHz
Spurious Emission:	Less than -60dB
Microphone:	Dynamic type with push-to-talk switch, 500Ω

RECEIVER SECTION

Mode:	F3
Circuitry:	Double conversion
Intermediate Frequency:	1st IF 10.7 MHz 2nd IF 455 kHz
Sensitivity:	1μV for 30dB (S+N)/N Noise quieting 0.4μV for 20dB
Squelch Sensitivity:	Less than 0.25μV
Pass-Band Width:	More than 14 kHz (at -6dB)
Selectivity:	Less than 32 kHz (at -60dB)
Audio Output:	More than 0.7 W (at 10% distortion and 8Ω load)

Note: The circuit and ratings may change without notice due to developments in technology.

A product of
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