

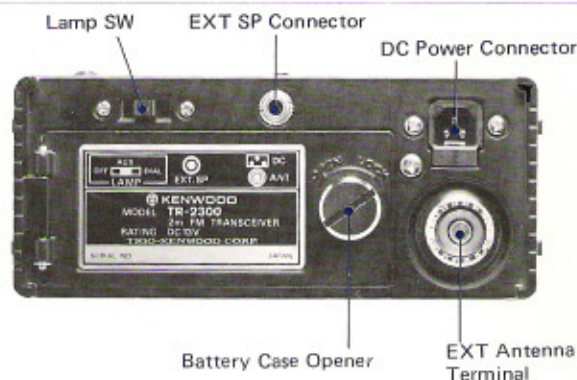
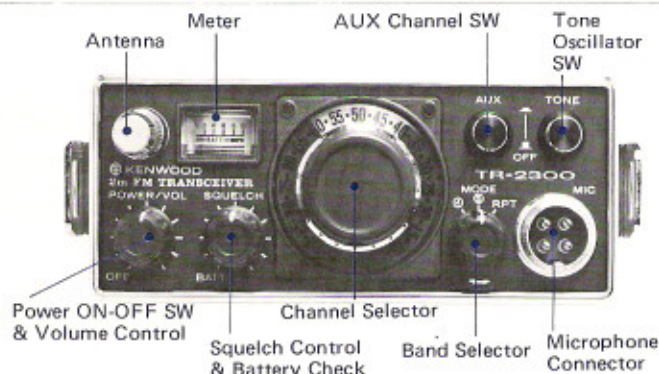
 **KENWOOD**

**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 PS-6 DC Power Supply VB-2300 10W Booster MB-2 Mobile Mount PB-15 Ni-Cd Battery RA-1 Helical Rubber Antenna

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 Radiation: 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
Less than 0.25μV

Squelch Sensitivity: More than 14 kHz (at -6dB)
Less than 32 kHz (at -60dB)

Pass-Band Width: More than 0.7 W (at 10% distortion and 8Ω load)

Selectivity: More than 0.7 W (at 10% distortion and 8Ω load)

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.

SNC VARELLOC COMIMEX COLMANT & C

capital 20000

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