SP-230 TS-830S VFO-230 AT-230

VFO-240

Remote VFO

The VFO-240 remote analog VFO is a valuable, yet affordable station addition for split-frequency operation, temporary QSY and fast return to a net frequency, searching for a clear frequency, and other applications.

FEATURES

● T-F SET switch: allows operator to set transmit frequency quickly; reverses transmit and receive frequency momentarily, to prevent transmitting on wrong frequency during split-frequency operation ● Cross-operation function switch ● RIT control ● MAIN and RIT indicators.

SPECIFICATIONS

● Oscilating Frequency: 5.5—6.0 MHz ● Oscillator Circuit: modified clapp ● Output Voltage: 0.2 V ± 1 dB ● Frequency Stability: Within 100 Hz per 30 minutes after 3 minutes warm-up ● Sold-state Complement: FET; 2, Transistor; 2, Diode; 6 ● Power Source: From TS-830S, TS-530S ● Dimensions: 180 (7.2)W x 133 (5.3)H x 288 (11.5)D mm (inch) ● Weight: 2.4 kg (5.3 lbs.)

VFO-230

Digital Remote VFO

The VFO-230 digital VFO provides maximum efficiency and flexibility for all operating conditions, including split-frequency operation, by combining a 20 Hz step digital VFO with five memories.

FEATURES

● 20 Hz step digital VFO: Provides excellent stability and smooth tuning on CW and SSB ● Five Memories: Frequency can be transferred from VFO (transceiver or VFO-230) to memory or from memory to digital VFO (VFO-230) ● Built-in digital display: Shows digital VFO or memory frequencies. The display range is selected automatically to cover 900.0—599.9 or 400.0—099.9, according to the band. Backed up by analog subdial with 1 kHz divisions. ● Cross-operation flexibility: Easy to operate function switch provides: RECEIVE/TRANSMIT: Main, RMT, Memo (Main: Transceiver VFO or FIX, RMT: VFO-230 digital VFO, MEM: Memory) ● T-F SET switch: Allows operator to set transmit frequency quickly. Reverses transmit and receiver frequency momentarily, to prevent transmitting on wrong frequency during split-frequency operation ● Expanded frequency coverage: About 100 kHz above and below each 500 kHz band for MARS and other applications ● Lock switch: To prevent accidental frequency change ● MAIN, RMT, and MEMO indicators: LEDs show functions in operation ● Capability with TS-830S, TS-530S, and TS-130 Series.

SPECIFICATIONS

● Oscillating Frequency: 5.4—6.1 MHz ● Frequency Stability: 1×10^{-6} 20 Hz (at normal temperature), 3×10^{-6} 20 Hz (0—50°C) ● Output Voltage: 0.2V +3 dB, −1 dB ● Power Requirement: 120 V AC (modifiable to 220 V AC), 50/60 Hz, 13 W ● Dimensions: 180 (7.2)W x 133 (5.3)H x 287 (11.5)D mm ● Weight: 3.1 kg (6.8 lbs.)

AT-230

Antenna Tuner

The AT-230 antenna tuner includes the new three bands and functional features such as a through-line wattmeter, SWR meter and antenna selector switch.
The AT-230 greatly adds to the effectiveness of your station.

SPECIFICATIONS

(ANTENNA COUPLER) ● Frequency Range: 9 amateur bands from 1.8 to 30.0 MHz ● Input Impedance: 50 Ω ● Output Impedance: 10 to 500 Ω, unbalanced ● Through Power: 200 W max. (WATTMETER) ● Type: Through line wattmeter ● Frequency Range: 1.8 to 30.0 MHz ● Measurable RF power: Up to 20/200 W, switched ● Kinds of RF Power: Forward and reflected power, switched ● Impedance: 50 Ω ● Accuracy: Better than ±10% of full scale (SWR METER) ● SWR detection: Toroidal core directional coupler ● Measurable Range: 1.1 to 10 ● Min. Power Required: 4 W (GENERAL) ● Connectors, INPUT: UHF type, 50 Ω ● Connectors, ANT-1: UHF type; ANT-2: UHF type; ANT-3: Wire antennal only; GND ● Dimensions: 180 (7.2)W x 133 (5.3)H x 287 (11.5)D mm (inch) ● Weight: 3.4 kg (7.5 lbs.)

SP-230

External Speaker

The SP-230 external speaker matches the TS-530S HF transceiver.
It is a low-distortion speaker with selectable frequency response for high intelligibility in any mode. The frequency response is determined by the built-in audio filters, which are effective in improving signal-to-noise ratio under certain interference conditions, or when receiving weak signals.
On the front panel is a headphone connector, for listening to audio output passed through the filters. Also on the front panel is a switch for selecting either of two audio inputs to the SP-230.

SPECIFICATIONS

● Maximum Input (nominal): 2W ● Impedance: 8 Ω ● Frequency Response: 300 Hz to 5 kHz ● Filter Cut off Frequency: Low = 400 Hz/−3 dB, High 1 = 3 kHz/−3 dB, High 2 = 1.5 kHz/−3 dB, High 1 and High 2 = 1.0 kHz/−3 dB ● Filter Attenuation Characteristic: −6 dB/Oct. ● Dimensions: 180 (7.2)W x 133 (5.3)H x 287 (11.5)D mm (inch) ● Weight: 1.8 kg (4.0 lbs)

TL-922A

HF Linear Amplifier

The TL-922A is an HF linear amplifier operating at maximum legal power, and employing a pair of 3-500Z high performance transmitting tubes.

SPECIFICATIONS

● Frequency Range: 160 meter band—1.8 to 2.0 MHz, 80 meter band—3.5 to 4.0 MHz, 40 meter band—7.0 to 7.3 MHz, 20 meter band—14.0 to 14.35 MHz, 15 meter band—21.0 to 21.45 MHz ● Mode: SSB, CW, RTTY ● Drive power: 80 W or more for full output ● RF Input Power: SSB; 2,000 W PEP, CW, RTTY; 1,000 W DC ● Circuitry: AB_2 Class Grounded-grid Linear Amplifier ● Input Impedance: 50 Ω ● Output Impedance: 50 to 75 Ω ● Tubes: EIMAC 2x3-500Z (option) ● Dimensions: 390 (15.6)W x 190 (7.6)H x 407 (16.3)D mm (inch) ● Weight: 31 kg (68 lbs.) ● Power Requirements: 120/240V AC, 50/60 Hz

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