ACOM 2000A

Automatic HF Linear Amplifier



OUTSTANDING HF POWER PRODUCTS

www.acom-bg.com

MAIN FEATURES

COOL 1500 W RF OUTPUT

Self-contained linear amplifier. Covers all HF bands. Employs two 4CX800A (GU74B) Svetlana high performance ceramic metal tetrodes.

FULLY AUTOMATIC

Automated matching of the antenna impedance to the optimum load of the tubes during initial preparation of user tunings.

EASY TO OPERATE

No operator intervention is required when changing antennas or frequency. Thus, the risk of inadvertent errors, such as incorrect antenna selection or failure to change band switch, is eliminated.

REMORE CONTROL UNIT (RCU)

Only the RCU needs place near the operator. All amplifier status indicators and comments are presented on the Remote Control Unit 5" TFT display. The HELP sub-menu gives on-board technical assistance and troubleshooting suggestions, power-on elapsed time hours, etc. Two color strips display peak forward and reflected power. Indicators are provided for OPERATE/STANDBY modes and for fault conditions.

EFFICIENT TUNING

Less QRM, improved Electro Magnetic Compatibility during tuning. Retuning can be achieved in three ways: manually via the RCU, by the transceiver's CAT system, or with a very short transmission - a single word on SSB or a dot (even at 40 wpm) on the new frequency is enough to change bands or segments automatically in a second. Also, the initial process of user tuning settings preparation is done in less than three seconds at a quarter of nominal output power.

AUTOMATIC ANTENNA MATCHING AND CHANGE

Antenna matching for SWR up to 3:1 (2:1 on 160 m). User tunings of ten different antennas per each band segment.

VIRTUALLY SILENT QSK

Full break-in (QSK) using a built-in vacuum relay.

CAT CONNECTIVITY

CAT connection to most transceiver models.

CONSTRUCTION

Only high quality RF ceramic and silver plated metals (no plastics, no ferrites) in the plate tank. True transmitter-type tubular and door-knob ceramic pad capacitors. All main parts and assemblies are produced by ACOM company: ceramic tubes sockets, plate and antenna ceramic chokes, ceramic supported and ball bearing variable air capacitors, ceramic band switch, LV and HV transformers, 100 W swamping 50 Ohm RF resistor, quiet air blower, metal work, etc.



TUBE PROTECTION

All tubes voltages and currents, supply voltages, overheating, overdrive, insufficient flow of cooling, internal and external RF arcs, T/R sequencing, antenna relay contacts 'hot switching', antenna matching quality, reflected power, stored data, inrush power-on current, and cover interlock for operator's safety.



OPTIONS

- Auxiliary external fan for continuous modes of operation
- ACOM 2000S automatic antenna selector and ACOM 2000SW remote antenna switch
- ACOM eBox Ethernet Remote control device.

SPECIFICATIONS

FREQUENCY COVERAGE
All amateur bands from 1.8 to 29.7 MHz frequency range (extensions and/or changes on request)

RATED POWER OUTPUT
1500 W, PEP or continuous carrier,
no mode limit (at 200/240 VAC mains supply)

INTERMODULATION DISTORTION
Better than 35 dB below rated PEP output

HUM AND NOISE
Better than 35 dB below rated output

HARMONIC OUTPUT SUPPRESSION
Better than 50 dB below rated output

AUTOMATIC TUNING
- Load impedance matching - less than 3 seconds
- Band change - less than 1 second
- Segment change - less than 0.2 seconds

MAINS POWER SUPPLY VOLTAGE
90-132 VAC / 180-264 VAC (100, 120, 200, 220 & 240 V nominal taps, +10% -10% tolerance), 50-60 Hz, Single phase

MAINS POWER CONSUMPTION
- Up to 3500 VA at rated output from 200/240 VAC mains supply
- Up to 2400 VA at 1000 W output from 100/120 VAC mains supply

SAFETY AND ELECTROMAGNETIC COMPATIBILITY
Complies with CE safety and electromagnetic compatibility requirements, as well as with the US Federal Communications Commission (FCC) regulations



INPUT AND OUTPUT IMPEDANCES
- Nominal value: 50 Ohm unbalanced, UHF (SO-239) type connectors
- Input circuit: broadband, SWR below 1.3:1, 1.8-30 MHz continuously (no tuning, no switching)
- Bypass path SWR below than 1.1:1, 1.8-54 MHz continuously
- Output (antenna) impedance matching capability: SWR up to 3:1 (2:1 for 160 m) or greater at reduces output levels; Automated

RF GAIN
14.5 dB typically, frequency response less than 0.5 dB (50-60 W drive power for rated output)

ALC
ALC: grid-current derived, -11 V max, rear panel adjustable

SIZE & WEIGHT
- Operating (excluding connected cables)
  - Amplifier, WxDxH: 440x500x180 mm, 36.5 kg (17.3x19.7x7.1 inches, 80.5 lbs.)
  - RCU, WxDxH: 170x138x63 mm, (6.7x5.4x2.5 inches)
- Shipping
  - Amplifier carton, WxDxH: 610x590x390 mm, 25.5 kg (24.1x23.3x15.4 inches, 56.3 lbs.)
  - Transformer carton, WxDxH: 330x390x370 mm, 17.5 kg (13.0x15.4x14.6 inches, 38.6 lbs.)

Dealer/Partner's address:



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