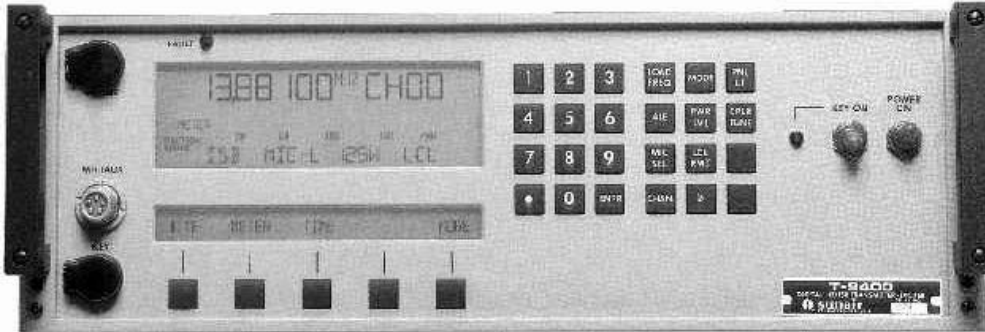


T-9400E DIGITAL HF/ISB EXCITER Product Information Sheet



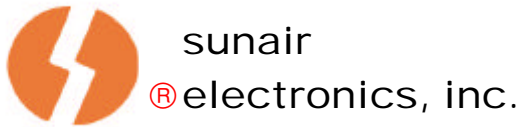
- 128 PROGRAMMABLE CHANNELS
- 10 MS SYNTHESIZER
- 2 CHANNEL ISB, STANDARD
- REMOTE CONTROLLABLE
- BUILT-IN-TEST
- HIGH SPEED DATA COMPATIBLE

The **T-9400E** is a high performance fully synthesized HF/ISB Transmitter delivering drive power to the LPA Series high power amplifiers throughout the frequency band of 1.6 MHz to 30 MHz. A low noise, fast settling synthesizer with 10 Hz frequency resolution permits frequency changes in 10 ms. Data services such as Link 11 / Link Y and data modems up to 2400 baud are available using special IF filters and customized software.

A widescreen LCD provides current operating statuses including: frequency, channel, mode, drive power, local or remote control. A bar graph meter selectively indicates forward and reverse RF power, and 600 ohm transmit audio levels. A softkey menu LCD, below the main display, permits the operator to select meter, line audio and other operating features not found on the front keypad plus any custom features.

The LPA Series incorporates comprehensive static and dynamic built-in-test (BITE) capability to the Lowest Repairable Unit (LRU). Dynamic BITE constantly monitors the **T-9400E** and associated LPA amplifiers for faults. Clear, concise, front panel English language messages are used throughout the BITE routines.

Full function remote control is available from the RCU-9310T Remote Control Unit or by personal computer with remote control software. Control via RS-232, 422 and 485 at data rates up to 9600 baud is standard. For long distance remote control by RCU-9310T an optional internal 300 baud FSK modem is available. External modems are used for high speed long distance remote control by RCU-9319T or PC.



T-9400E Product Specifications

GENERAL

FREQUENCY RANGE: 1.6 to 29.99999 MHz in 10 Hz steps
PROGRAMMABLE CHANNELS: 128
FREQUENCY STABILITY: 1 part in 10^6 (Optional 1 part in 10^8)
MODES OF OPERATION: USB, LSB, CW, AM, 2 Channel ISB, DATA (RTTY, ARQ, FEC, FAX, with external modem)
MEMORY RETENTION: Non-volatile
SYNTHESIZER LOCK: 10 ms
REMOTE INTERFACE: RS232/422/485 (FSK tone optional)
RF OUTPUT IMPEDANCE: 50 ohms nominal, unbalanced
BITE: Fault isolated to module level (LRU), descriptive readout on front panel and individual module indication
OUTPUT POWER: 250 mW (nominal, adjustable)
CARRIER SUPPRESSION: 50 dB below PEP
UNDESIRE SIDE BAND: 50 dB below PEP @ 1kHz
HUM & NOISE LEVEL: 50 dB below PEP
AUDIO INPUT: Microphone, two selectable 600 ohm lines
AUDIO COMPRESSION: 10 dB nominal (Internal Disable)
INPUT POWER: DC: 26 VDC \pm 15%
AC: 115/230V \pm 15%
AC/DC Auto changeover

DIMENSIONS: INCHES (CM): 5.96" (15.2)H x 17.83" (45.4)W x 17.66" (44.9)L
WEIGHT: LBS (KG): 46.7 (21.25)
CONSTRUCTION: Modular plug-in assemblies

ENVIRONMENTAL

TEMPERATURE: -30°C to + 50°C
HUMIDITY: 100% AT 50°C
RAIN: MIL-STD-810F, Method 506.4
SHOCK: MIL-STD-810F, Method 516.5
VIBRATION: MIL-STD-810F, Method 514.5

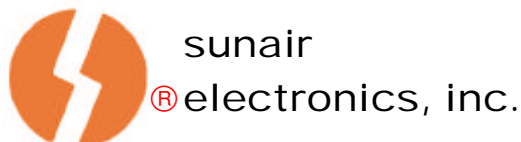
INTERNAL OPTIONS

REMOTE CONTROL: Telephone FSK Modem Card
SPECIAL FILTERS: DATA, CW, FSK to specification
HIGH STABILITY: Oven Controlled Oscillator
POWER SUPPLY: 115/230 VAC 400 Hz line operation
CLOCK: 3 time zones and date

PERIPHERAL EQUIPMENT

REMOTE CONTROL: Workstation Remote Terminal or RCU 9310T
POST SELECTOR: F-9800 Low Level Post Selector

Specifications subject to change without notice



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