

# ELECRAFT® T1 Automatic Antenna Tuner



- Ultra-small size (4.4 x 2.5 x 0.9")
- Use with any low-power rig (up to 20 watts)
- 160-6 meters
- FT-817 remote-control option
- Memories for fast re-tunes
- Tunes in any mode, even SSB
- Power & SWR LED display
- Internal Battery

## World's Smallest Stand-Alone ATU!

The Elecraft T1 is the only automatic antenna tuner that's sized to match today's small QRP rigs. It's *one-fourth* the size of most other compact ATUs. And at just 5 ounces, the T1 is the ideal backpacking accessory.

## Use with any Low-Power Transceiver

The T1 can be used with any 0.5-W to 20-W transceiver covering bands in the 160-6 m range. This includes kits, home-built rigs, and commercial transceivers such as the FT-817, IC703, Ten-Tec Argonaut, SG2020, etc.

## Quick, Convenient, and Accurate

The T1's 7-inductor, 7-capacitor L-network provides a wide matching range, and its re-tune time from memory is just 1 to 2 seconds. Equally important, the T1 always tries to achieve a 1.0:1 SWR—it doesn't stop at 1.5:1 or 2.0:1 like some tuners. You won't even need to change modes to tune. You can use SSB voice or a keyer as well as a constant carrier (AM, FM, CW, etc.).

## FT-817 Remote-Control Option

For even greater convenience, we offer a "smart" remote control adapter for use with the Yaesu FT-817<sup>1</sup>. On any band change, the adapter's microcontroller sends band data to the T1, which quickly recalls the appropriate network settings. Imagine instant QSY without the need to transmit—less QRM, less hassle!

## Factory-Assembled or Complete Kit

You can purchase the T1 assembled and tested, or as an easy-to-build kit. Our professionally written, fully illustrated assembly manual provides step-by-step instructions, and no alignment is required.

## Unsurpassed Technical Support

If you have any difficulty, our technical support via telephone and the Internet will get your T1 up and running quickly. You can also get answers to nearly any question day or night from the helpful, tech-savvy hams on our e-mail user group.

<sup>1</sup> Model T1-FT817 (see other side). Adapters for other transceivers may be available; refer to [www.elecraft.com](http://www.elecraft.com).

## T1 ATU FEATURES

Specifications and Pricing subject to change without notice.

- ❑ Small size, ideal for home, mobile, camping, and HF Pack use
- ❑ Stand-alone; works with any low-power rig
- ❑ 160 through 6 meter coverage
- ❑ Handles up to 20 watts (10 W continuous)
- ❑ Finds lowest SWR; doesn't stop at 1.5:1 or 2:1
- ❑ Tunes in any mode (constant carrier, SSB voice, CW keying, AM, FM, packet, etc.)
- ❑ Many tune-ups are saved for fast re-tuning
- ❑ 3-element LED bar graph shows SWR, power
- ❑ Internal 9-volt battery and low-battery warning
- ❑ Latching relays consume no current except when actually switching
- ❑ Automatic power-off for long battery life
- ❑ *INFO* feature reports L and C values, battery voltage, and other data
- ❑ Quick-reference guide included on front panel
- ❑ Rugged, impact-resistant enclosure

## SPECIFICATIONS

- ❑ Inductance range: 0-7.5  $\mu$ H in 128 steps
- ❑ Capacitance range: 0-1300 pF in 128 steps
- ❑ Network: Series L, shunt C (switchable)
- ❑ Tuning times (typical): 2 to 8 seconds for initial tuning; 1 to 2 seconds to re-tune from memory
- ❑ Frequency range: 1.8 to 54 MHz
- ❑ Max power: 20 W peak, 10 W continuous (10 W peak on 6 meters)
- ❑ SWR/power display: 1:1 to 3:1 and 0.5 to 10 watts on three LEDs (5 gradations)
- ❑ Supply voltage: 8 to 10 VDC; 9-volt Ultralife lithium or alkaline battery recommended
- ❑ Current drain: 20 mA average during TUNE; 0 mA when off (auto power-off)
- ❑ Size: 4.4 x 2.5 x 0.9" (11.2 x 6.3 x 2.3 cm)
- ❑ Weight: 5 oz. (0.14 kg)

## T1-FT817 REMOTE-CONTROL ADAPTER

- ❑ Band change at transceiver recalls appropriate L-C settings at the T1, without transmitting
- ❑ Adapter generates no RFI
- ❑ Microcontroller inside adapter cable converts band-data voltage to digital data for tuner
- ❑ Shielded, 18" cable
- ❑ Extremely low current drain: 330 microamps with transceiver on, 60 microamps off

Please see our Price List or website for current pricing.



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