

# TEN-TEC SQUEEZE KEYERS

**MODEL KR20** Net price **\$59.95**



The KR-20 is a popularly priced keyer designed for experienced amateurs. It provides crisp easy-to-copy CW at all speeds without operator fatigue.

**"Feel"** The most important feature is "feel". The paddle assembly incorporates a linear magnetic paddle return. Return force is adjusted by two front panel knobs which move magnetic shorting bars. With this system, each paddle can be set individually to optimum tension. Most operators like the definite break when the paddle is touched. This slight click gives a positive action even when the actuation is in the order of a few grams. The crisp action eliminates the muddy or sloppy feel of conventional paddles. Paddles can be canted for most comfortable position. Contact spacing is adjusted through holes in the top of the case.

**Keyed Time Base** Each character starts immediately when the paddle is actuated. A momentary closure of either paddle is all that is necessary to form a complete character (dit or dah).

**Weight Ratio** The traditional keyer has a dit-to-dah ratio of 1:3. A space has the same length as a dit. This dit-dah-space ratio is fairly smooth at higher speeds, but becomes choppy at speeds below 25 wpm. Accordingly, we have incorporated a character-to-space

ratio extender to suit individual preference. The monitor, however, has the conventional 1:3 ratio.

**Monitor** A built-in monitor provides a side tone for feeding headphones or speaker. Volume and frequency of 600-1500 Hz is adjustable to suit the operator's taste. This also can be used for off-the-air code practice. For high impedance receiver input use a 220,000 ohm resistor in series with the monitor lead.

**Output** The output is handled by a reed relay. Rated at 15 volt-amperes, it will key all regularly used keying circuits. The maximum keying voltage is 400 volts.

**Speed** A single control, tapered to provide linear adjustment, varies the speed from 6-60 words per minute.

**Electrical** The KR-20 circuitry is completely solid state. It employs one dual JK integrated circuit, nine silicon transistors and eight silicon diodes. Power source is 105-125 volts at .125 amperes, 50-60 Hz.

**Mechanical** The chassis is rigid steel. Cyclocac® molded side panels have recessed wood grain finish. Nylon paddles are shaped for comfortable operation over long periods. Size: 2½" high, 4¾" wide, 8" deep. Weight: 2½ pounds. Push-on push-off switch with pilot light. Line cord: 5'.

## KR6

Similar in appearance to KR-40, Embodies a new principle in paddle design. Excellent "feel". Factory adjusted weighting for smooth rhythmic CW even at low speeds. Fixed light force paddle return. Single control speed adjustment 6-60 wpm. Employs 1 dual JK IC 6 silicon transistors and 7 silicon diodes. On-Off switch. Pilot light. No side-tone oscillator provided but AC-2 can be used. Output relay handles 15 volt-amp. Size: 2½ H, 4¾ W., 8" D. Weight: 2 lbs., 3 oz.

**MODEL KR6** Net price **\$44.95**

## KR5



**MODEL KR5**

Net Price **\$34.95**

The KR-5 embodies a new principle in paddle construction. It provides, at low cost, action that is usually associated with higher-priced instruments. Power must be supplied by a 6 or 12 volt battery, or an a.c. operated 6 or 12 volt d.c. supply. It is excellent for mobile or fixed operation.

**"Feel"** The KR-5 feels good. Unlike most low-priced keyers, it seems to want to send effortlessly. Tension is pre-adjusted for optimum actuation force and return time. The molded paddles fit the thumb and forefingers of all hand sizes.

**Time Base** Characters start immediately when the paddle is actuated. A momentary

closure of the paddle is all that is needed to form a complete character (dit or dah).

**Weight Ratio** To enhance the quality of transmission and to give it smoothness and rhythm at low speeds (below 25 wpm) a weighting factor is built-in. This is controlled by one resistor and may be changed by the owner if a different factor is desired, such as continued high-speed operation above 35 wpm.

**Monitor** No monitor is provided. However, the AC-2 can be connected to an output jack located on the rear panel.

**Output** The output is handled by a reed relay. Rated at 15 volt-amperes, it will key all regularly used keying circuits. The maximum keying voltage is 400 volts.

**Speed Control** A single control, tapered to give easy adjustment, varies the speed from 6-60 wpm. Contact spacing is made on the front panel. Anti-vibration locks are provided.

**Electrical** The KR-5 circuitry is completely solid-state. It employs one dual JK integrated circuit, six silicon transistors and seven silicon diodes. Power required (not furnished) is 6 volts d.c. at 150 m.a. or 12 volts d.c. at 200 m.a. An a.c. operated 6 or 12 volt d.c. source can be used.

**Mechanical** The case is formed aluminum, finished in durable baked enamel. Plastic parts are molded high-impact Cyclocac®. Size: 2" high, 4" wide, 6" deep. Weight: 1 pound, 6 ounces.

## TEN-TEC PADDLE ASSEMBLIES

### KR1



The Model KR-1 Keyer paddle assembly is used in the Ten-Tec KR-20 complete keyer. The actuation paddles are mounted on torque bars which multiply the forces acting on the make-break contacts.

To return the paddle after a contact has been made (dit or dah) an ingenious magnetic structure provides the return force. Adjustment knobs on the front panel vary the position of shorting bars which attenuates the return force on the individual paddles. Each paddle can be set to suit individual taste. Contact spacing is adjustable through access holes in the top of the case.

In operating, there is a slight "click" which most experienced CW operators like. It seems to eliminate the "softness" and lack of control often associated with key paddles. Yet, actuation can be made with just a few grams of force.

The KR-1 can be used with either squeeze or conventional keying circuits. The entire assembly is housed in an attractive aluminum case. Size: 2 × 4¼ × 6. Weight: 1 pound.

**MODEL KR1** Net Price **\$18.95**



### KR2

The Model KR-2 Keyer paddle assembly is used in the Ten-Tec KR-5 complete keyer. It embodies a unique principle in construction, allowing desirable low actuation force, simply and at low cost. It is a single paddle, not designed for squeeze keyers.

Paddle return tension is factory adjusted for optimum feel. Contacts are easily accessible from the front. Adjusting screws are spring loaded to prevent movement from vibration.

The entire assembly is housed in an attractive aluminum case. Size: 2 × 4¼ × 6. Weight: 1½ pounds.

**MODEL KR2** Net Price **\$12.95**