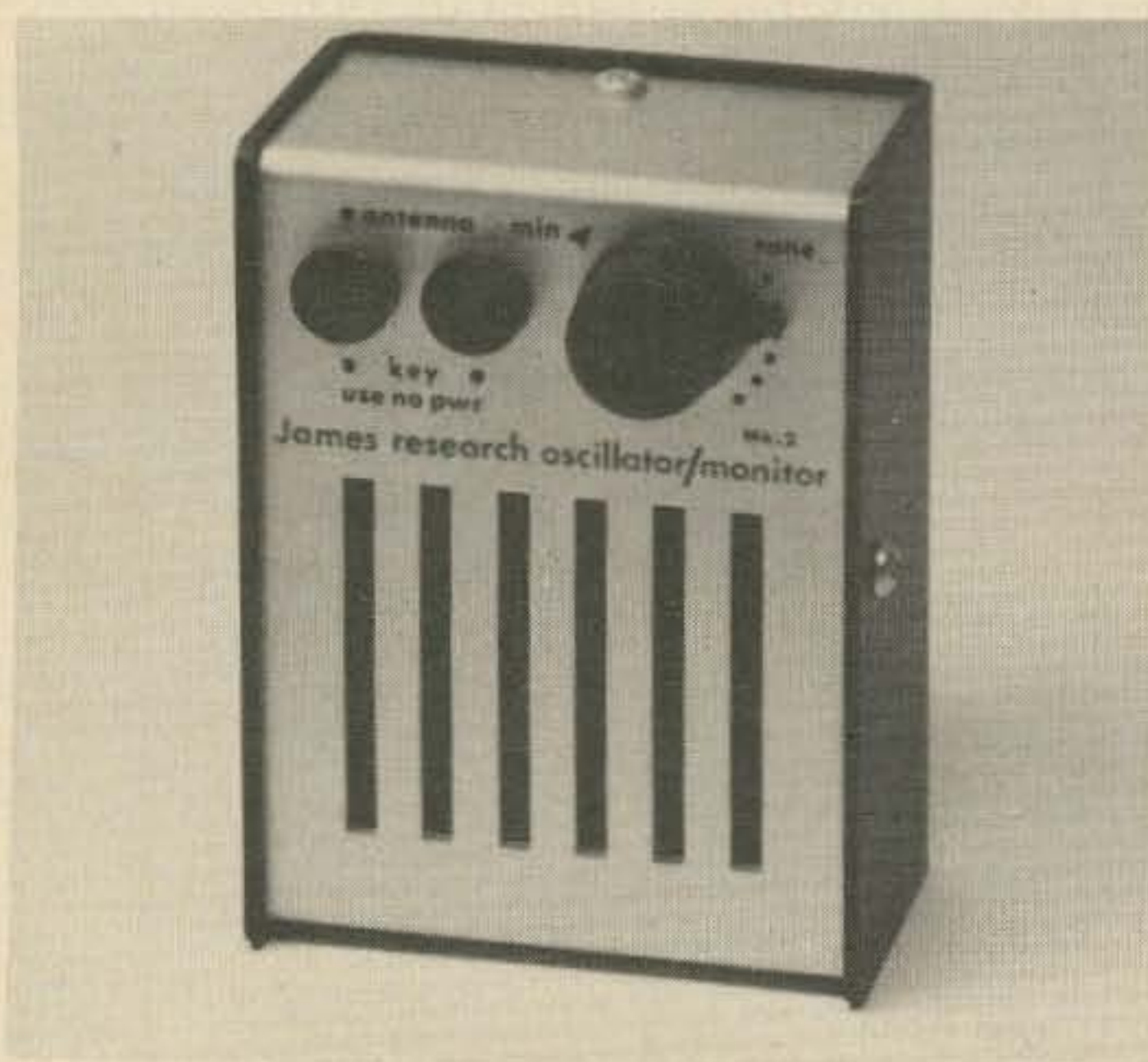


73 Tests

The James Research Oscillator/Monitor, Mark 2 and Permafex Key



Oscillator/Monitor is a very modest description of this extremely versatile piece of equipment. Housed in an anodized aluminum case about the size of a pack of cigarettes, this little unit does just about everything except stand up and sing "The Star Spangled Banner."

The Mark 2 will serve as a CW monitor, a code practice oscillator, an *rf* detector, an *rf* test device, and a test instrument to check diodes and semi-conductor devices of all types.

CW monitoring

The Mark 2 provides a reliable CW side-tone from any amateur transmitter regardless of power or frequency. It requires no connection to either the transmitter or key. An 8" stiff wire antenna picks up stray *rf* and triggers the monitor. A strong magnet is attached to the back of the case to allow it to be placed on the transmitter in the spot where the *rf* pickup will be best.

Code practice

The monitor can be connected to any keying device to produce a loud, click free audio tone. A tone control knob allows for adjustment to a comfortable listening tone.

RF detection and testing

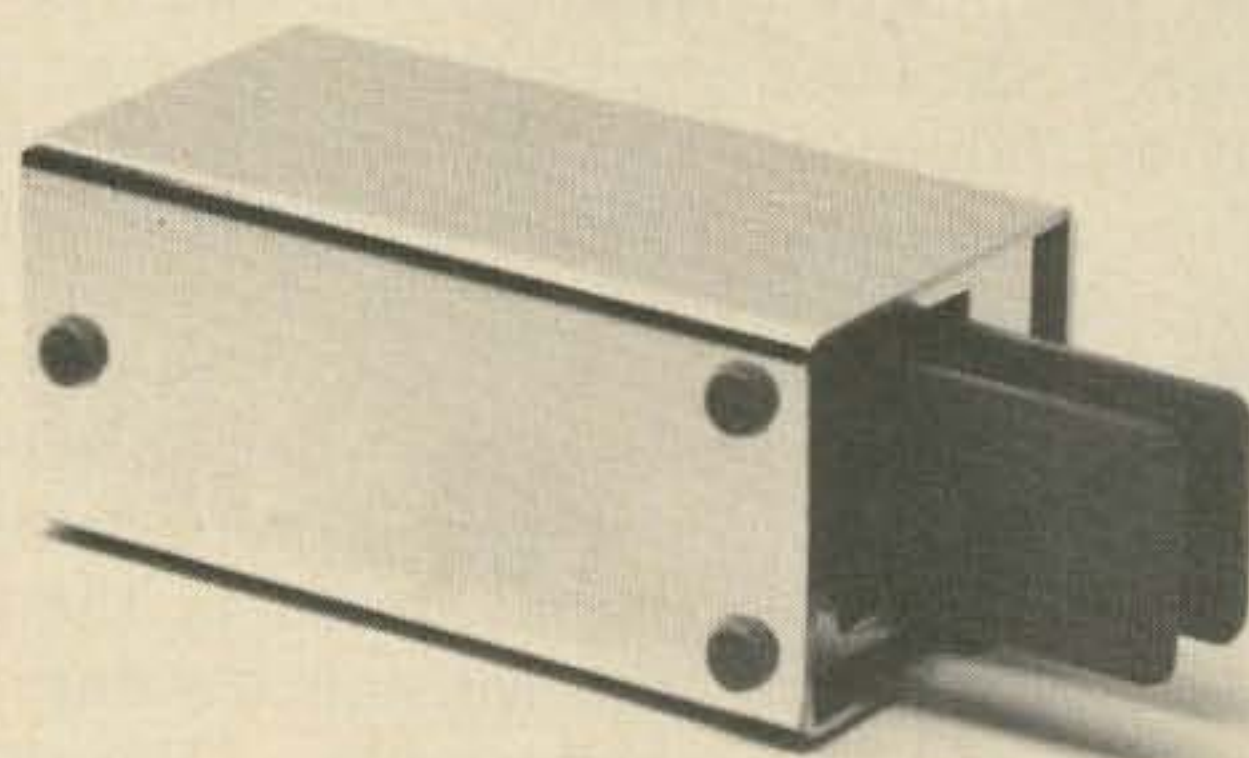
The high sensitivity and broadband characteristics of the monitor make it a valuable *rf*

test instrument. It will detect the presence of *rf* by producing an audible tone and indicates relative power of the *rf* source by changing tone. No direct connection is required for *rf* in excess of 10 milliwatts. The monitor may be used as an effective tuning aid for transmitters or power oscillators. As the *rf* power increases, the tone becomes lower in pitch.

Component continuity and semi-conductor testing

For the testing of circuit or component continuity, the monitor has many advantages. Tests with the monitor are completely non-destructive since the power required can never exceed .0025 microwatts and the open circuit voltage is not over 1.5 volts. The maximum current that can pass through any component will not exceed 50 microamps. The monitor will test component resistances from zero to 100,000 ohms. Various resistance values will cause the tone of the monitor to change. It is possible to test for open or shorted conditions as well as partial continuity. Since the monitor is a polarized device, it will test such polarity sensitive components as semi-conductors and meters.

Available by direct mail only at the Mini-price of \$14.95.



Permafex key

The James Permafex key is a manually operated single pole double throw switch

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An internationally-known DX'er, Mr. Gus Browning, W4BPD, is planning to leave on a new DX-pedition during the month of February, 1969. He is taking with him two specially designed Stellar-Case stations. These stations will be contained in two custom cases, containing a Galaxy V transceiver for 80-10 meters, power supplies, remote V.F.O.'s, a specially-built Galaxy 160 meter transceiver, spare parts kits, microphone, keys, log books, tools, meter, and so on.

Naturally, one case size will not meet all requirements, so Stellar has arranged to utilize several different sized cases, in order to best meet the customer's requirements.

A special case will be custom fitted to the customer's requirements, whatever they may be. These cases are extra-heavy-duty fibreglass, bound with aluminum. The fibreglass is, in most instances, over 1/8" thick. A traveling ham station, which weighs between 35 and 75 pounds, is quite heavy, and requires extra protection. The interior of the Stellar-Case is lined with poly-urethane foam to prevent the equipment from moving within the case.

For a quotation on *your* Stellar-Case, please submit the following information:

Make and model of equipment to be installed

Dimensions of any home brew units

List of all accessories

Whether you wish all to be in one case, or in two cases

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mechanism. It has two independent insulated contact paddles mounted to a contacting center support arm. The key is operated by light finger pressure against either of the two paddles. The key can be used with any electronic keyer or may be connected directly to a transmitter. The contacts are rated 8 amps at 28V dc which is far in excess of most transmitter requirements and are the heart of the key design since they eliminate the usual corrosion and cleaning problem associated with traditional silver contacts.

The silver contacts have a gold diffused coating.

The key is housed in a polished chrome-plated steel cabinet 1 9/16" square by 3 3/4" long and total weight is 10 oz. There are two independent sets of rubber feet. When one set is used, the key operates as a side-swiper type of key. When turned to the other set of feet, it can be used as a straight hand key. Selling for \$19.95, it is hard to find a more versatile key.

All James Research products are designed and manufactured in the USA and are available by direct mail order only. They carry a one-year guarantee. James Research Co., Dept. AR-M, 11 Schermerhorn Street, Brooklyn, N.Y. 11201.

the permafex key

- both a twin lever & straight hand key in a pivotless 2 paddle design.
- gives instant choice of automatic semi-automatic & straight hand keying.
- use directly with any transmitter or through an electronic keyer.
- 8 amp. gold diffused silver contacts adjust from 0-.060" & 5-50 grams.
- distinctive blue paddles are of rugged G-10 fiberglass epoxy.
- cabinet is 16 gauge polished chrome steel: 1.95" sq. x 3.75", paddles extend 1.25", weight app. 1 pound.
- silicone rubber feet for stability.
- 100% US made & guaranteed for 1 yr.



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