



PACK-RATS'

# CHEESE BITS



CLUB CALL: W3CCX

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MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.  
(50.2, 145.2, 221.4, 432.3 & 1296.3 MC)

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

MEETINGS: THIRD WEDNESDAY OF EACH MONTH AT 8:00 P.M.

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VOLUME III

DECEMBER 1969

NUMBER 12

## OUR PREZ SEZ

### What's Going On?

To analyze and list activities of club members would fill many more pages than this magazine could afford. Not until I filled this seat and I got this close contact with so many of the gang did I realize the amount and variety of projects these busy boys have going. I'd say every one is doing something. Some are doing several things, others are doing many things. Some have so many projects that they have to be numbered.

Are the projects successful? Some are great and worthwhile, some are so-so! Others are hopelessly bogged down, waiting for a part, lacking time or some other snag (money).

The most popular type of project is the Mini Box Gear, next is antenna test gear and antenna experiments (where's that extra DB?) converters and exciters are possibly next.

The quality of this work is interesting. It sure varies from makeshift to jewelled masterpieces. Some are direct copies of published articles while others are creative gems - born by flat pocketbooks and interesting junk boxes.

Most everybody is fixing something. This is a colossal list. It seems all have a problem (or problems) they are trying to fix, are fixing or breaking something so that it must be fixed.

Continued on Page 3

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

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DIRECTORS' MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS.

MONDAY NIGHT NETS:

145.2 - 7:30 P.M.  
50.2 - 8:30 P.M.  
221.4 - 9:30 P.M.  
432.3 - 10:00 P.M.

OFFICERS - 1969-1970:

PRESIDENT: W3KKN, ERNIE KENAS  
VICE-PRES.: K3JJZ, ELLIOTT WEISMAN  
CORRES.SEC.: W3SAO, FRANCIS BRICK  
REC. SEC.: K3ZPN, LLOYD SCHOENIG  
TREASURER: W3MVF, DAVE BLOCH

DIRECTORS:

K3HSS, CHARLES LUSTICK  
K3KTY, JOHN TATE  
W3CJU, DONALD HAMPTON  
W3CXU, JOHN ALLEN  
K3MXM, LEE COHEN  
K3CIV, RALPH HERSH  
(Ex-Officio)

PACK RATS' CHEESE BITS is a publication of the Mt. Airy V.H.F. Radio Club, Inc., Philadelphia, Pa., and is published monthly.

20¢ per copy                      \$2.00 per year

We operate on an exchange basis with other publications and anything that is printed in CHEESE BITS may be reprinted, unless so stated, as long as the proper credit is given.

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ARRL BULLETIN

Official Bulletin 244, October 23 Amsat, the Radio Amateur Satellite Corporation, reports that an early winter launch of the Australis Oscar 5 satellite is likely. The amateur satellite is designed to transmit on 29.450 and 144.050 MHz. Amateurs interested in tracking the satellite should review the QST article series beginning in the July issue. The orbit of Australis Oscar 5 is expected to be essentially the same as the example used in the October QST tracking article. Special reporting forms are available without charge from Amsat. Send an addressed stamped envelope to Amsat, Box 27, Washington, D.C. 20044. Listen to W1AW bulletins for further information on the launch.

\*\*\*\*\*

SILENT KEYS

We are sorry to announce the death of W3IK ex-W3HIX, John Specialny, Jr. of Quakertown.

John was one of the early transistor pioneers and was the author of many technical articles on transistorized VHF converters.

\*\*\*\*\*

WHAZZIT ITEM #1 (See p. 5 for rules.) It is fitting to start with a piece of club property. It's location is usually with a prominent club member. Unlike most items, it's value increase with time. With luck it will multiply

OUR PREZ SEZ (Continued)

Not only getting into shacks but actually nosing around on the workbench has revealed this. The Pack Rats are builders, innovators, craftsmen, hackers, scroungers, makeshift fixers, etc. The exciting optimism of the new and desirable drives them on.

Out of this maze of activity, one fact is clear. Somewhere, somebody is probably doing the same thing. Are you using the club effectively to exchange ideas, get information, find an easier way?

Come to think about it, this is a basic reason for a club. (It's even in our constitution.)

W3KKN, Ernie Kenas

P.S. Refreshments served to all prospective ghost writers.

\*\*\*\*\*

FROM THE BOOK RACK

Paul R. Behrmann, K3WEU/AREA\*

104 SIMPLE ONE-TUBE PROJECTS (Tab Books No. 486) by Robert M. Brown  
Price: \$6.95 hardbound; \$3.95 paperbound  
Size: 192 pages; 104 schematic illustrations

Here is a brand new collection of useful, easy to build construction projects for technicians, experimenters, hams, and hobbyists.

Put those idle tubes and tube-type components to work with this vast, one-of-its-kind, assortment of unique one-tube construction projects, and at the same time learn more about all kinds of electronic circuits. Included in this convenient selection volume are test instruments, ham gadgets, receivers, power supplies, DX aids, wireless mikes, tube rejuvenators, electronic games, eavesdroppers, stereo and hi-fi devices, and literally dozens more. And none using more than one tube! Most junk boxes contain all necessary parts for many projects. Even if new components are needed, few will cost more than \$5 (most far less).

Astute technicians and hobbyists will find lots of gadgets designed for, or adaptable to, many specific needs, and for experimenters and hams there are many circuits that lend themselves to modification for specialized applications. Each project includes a clear, concise schematic and parts list to enable the reader to assemble the necessary components and wire them easily into the finished product.

Included in the 104 projects are such devices as: VLF Receiver - DSB Converter for CB rigs - Modulation Scope - Wireless Mike - Nuvistor Q Multiplier - Screen Modulator - Capacitor Checker - Electroscope - Signal Generator - CRT Rejuvenator - Geiger Counter - Time Delay Relay - Grid Dipper - SSB Dectector, Etc.

\* Amateur Radio Editors Association

SOME THOUGHTS ON THE JANUARY 1970  
V.H.F. SWEEPSTAKES

In our society competition lubricates the wheels of progress. In our club, competition creates the desire of each individual to do a good job. Everyone likes to win and to be on a winning team.

VHFers come out of the woodwork and populate the vacant spaces; ham radio benefits from the roar of activity; the Mt. Airy V.H.F. Radio Club, Inc. demonstrates its primary purpose to promote V.H.F. activity.

The fall-out from a competitive contest in the line of over-all station improvement is terrific; the drive to excell as an operator is strong. Some very FB V.H.F. stations have been built entirely on the yearly competitive impulse. What have you improved this year? Are you ready for January 10 and 11?

Reflect for a moment on all the benefits of pouring yourself into a contest, both to yourself and to others; then balance the loss of a few hours sleep on the ledger. Get in there and pitch - the segment of Ham Radio you have chosen needs your effort. January 1970 a great year for the "Pack Rats".

W3CL, Harry  
W3ZD, Dave  
Co-Chairmen

January V.H.F. Sweepstakes Committee

\*\*\*\*\*

A REPORT OF A GOOD SAMARITAN ACT

George Keiser, K3ALK, had been ill for over a year and in no condition to do any physical work. When he received the club notice of the upcoming January Contest he was motivated into action. He needed help on his antenna system.

Bright and early on the Sunday morning of the 9th of November "sleepy" W3KKN, Ernie Kenas, K3DLS, Carl Groce, and K3GAS, Doc Cutler, went up the ladder at K3ALK's QTH to check over the antennas. George had done such a good job years before that the only replacement required was a wooden slab to serve as a base for the pipe. This was installed and thoroughly "gunked". The Seneca loaded up FB on 6 and 2 with good S.W.R. readings.

We even took a ball and packed leaves out of the neighbor's drain and the "lake" on the roof gurgled down the spout.

A banquet lunch was served - this was when W3KKN finally woke up!

Submitted by W3CL, Harry Stein  
As told by K3DLS, Carl Groce

\*\*\*\*\*

COLINEAR ANTENNA FIX CHANGE NO. 1  
(Refer to drawing in last months CHEESE BITS)

Change balloon number 10 to number 9, insert balloon number 9 to nut under strap number 3.

Submitted by K3HSS

WHAZZIT

Each month in CHEESE BITS a clue will be given to help identify our mystery item. It can be just about anything that active club members would be familiar with. The contest boasts no prizes as yet, but one can never tell. The method of submitting a guess is to do so ON THE AIR to one of the members listed below. The list will appear each month in CHEESE BITS along with the clue or clues. The members below will record the date, time, and call or name of the person or persons who guesses the item correctly. The guesser will be advised if his guess is correct. A new game will start with the first CHEESE BITS following a correct guess. Winners will be published in CHEESE BITS. All are invited to participate, members and non-members alike. The object is to promote V.H.F. activity by group discussion and guess submittal of the mystery item.

HINT: ANY ITEM IS SUBJECT TO BEING OUR MYSTERY ITEM.

JUDGES ARE: W3CL, W2EIF, K3GAS, W3GEW, K3JJZ, K3IGX, K3HSS  
(Get them on the nets!)

\* \* \* \* \*

In 1955 The Mount Airy V.H.F. Radio Club was founded. Today, fourteen years later, the leadership element outnumbers the original membership. This may sound impressive but the opposite is actuality. There are too many people upon whom the membership depend to set up the club activities. These few people are doing a lot more than their share of the work. What is sorely lacking is the participation of the general membership.

One such person has been working hard at developing a club project. This member and his committee have done a supurb job in designing and building a unit worthy of much praise. The unit is easy and fun to build. He has advertised it to the point that all interested club members have had the opportunity to be enlisted in the ranks of the participants. These members have told Mario of their interest. Nobody received a special invitation.

Likewise, if you want to participate in ANY club affair, it is up to you to step forward. And, gentlemen, nobody will wait on you hand and foot. Further, if you intend to participate in these activities be prepared to volunteer to help with the preparations. For if you do not volunteer, we are not too bashful to recruit. If you keep refusing, we feel that your interest is dead.

There are many coming affairs: January Contest, Ladies Night, Transmitter Hunts, June QSO Party, hopefully another antenna contest, and the general meetings. If you feel that each of these affairs are presented for your benefit, you are correct, but if you think this service is owed you then you are 100% wrong!!!!

The only way to show you this is to motivate you to participate. Raise your voice with suggestions, but be willing to help carry them through. A successful operation is dependant upon what you put into it. And right now we need help in the INPUT end.

A feeling becoming increasingly prominent is one in which the requirements for membership in our club be increased from the present "ham over 21". We ask that prospective members show that they will be an asset to the club also.

With this in mind, I think it shall not be long before the current membership is divorced from those that won't participate. Quantity is fine, but only where quality exists.

It is a poor man who cannot enjoy his surroundings to the fullest.

WA3BIV, Carl Barish

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From Official Bulletin NR 247 from ARRL Headquarters  
Newington, Connecticut, November 20, 1969, to All Radio Amateurs BT

The ARRL committee of tellers met today to count ballots in the elections just concluded for ARRL director and vice director. The number of votes credited to each candidate is as follows. The first listed candidate is declared elected for the next term of office.

In the Atlantic Division for Director,

- Harry A. McConaghy, W3EPC, 2189
- Gilbert L. Crossley, W3YA, 1034
- George W. Hippisley, Jr., K2KIR, 846
- Henry A. Blodgett, W2UTH/FRL, 698
- John F. Wojtkiewicz, W3GJY, 322
- Paul D. Meracado, W3FBF, 192.

Atlantic Division for Vice Director,

- Jesse Bieberman, W3KT, 2086
- Harold C. Smith, WA2KND, 1311
- George S. VanDyke, Jr., W3HK, 1028
- Allen R. Breiner, W3ZRQ, 833.

The new directors and vice directors take office starting January 1, 1970.

\*\*\*\*\*

WHEN I BECAME A PACK RAT

W3AJF	-	November 19, 1956	K3KTY	-	June 19, 1963
K3BOY	-	August 19, 1964	W2LZA	-	September 19, 1964
W3CJU	-	October 20, 1965	W3MVF	-	July 16, 1958
K3DUC	-	July 19, 1967	W3NSI	-	August 15, 1956
W2EIF	-	June 8, 1960	W3OR	-	June 8, 1963
W3GEW	-	December 16, 1959	WB2SZK	-	June 7, 1967
K3HJA	-	April 20, 1960	W3WGK	-	June 16, 1965
W3IHT	-	February 26, 1958	K3ZPQ	-	June 17, 1964
W3JSD	-	April 16, 1958			

Silent Key: W3CPT, Ken Harrison, drafted our first constitution and by-laws - May 15, 1956. Deceased March 7, 1966.

Should Auld Acquaintance Be Forgot?  
Where Are You?

K3DUC	-	Phil Delano	W3JSD	-	John Houser
K3HJA	-	Earl Wenk	W3OR	-	Alan Vincent
W3IHT	-	Doc Stewart			

W3SAO, Frankie Brick (Club Historian)

SWAP SHOP

Conducted By: W3ZRR, Ray Whitehead  
7329 Shelborne St.  
Phila., Pa. 19111  
215 - RA 2-4786

FOR SALE

- Mobile Mount for SB 101 and SB 110 \$10
- Hi Gain Ham Cat Mobile Antenna 10 thru 80 meters, bumper mount \$60
- Heath HP-13A Power Supply 12V DC to 800V, 250 Ma. Peak DC \$55

OR ENTIRE LOT \$105.

All above items never used - brand new.

CONTACT: Dave Hackford  
170 Terwood Rd., Apt. D33  
Willow Grove, Pa.  
OL 9-9054

\* \* \* \* \*

DID YOU KNOW

That Richie, harmonic of K3IUUV, had a bout with his appendix at Rolling Hill Hospital.

That Mort Mazer, WA3EPS, is maintaining nightly schedules with Aruba so he can keep tabs on his father-in-law's progress. Connie's father was stricken during a tour of South America.

That K3ZPN, Lloyd Schoenig, managed to loose the tip of his finger in the printing press. There is a little bit of Lloyd in the last issue of CHEESE BITS.

That W3CXU, Johnny Allen, completed work on decorating rec room and installing electronic organ and learning to jazz it up. Also, completed 100 amp wiring shack now has 230V/30 amp. New open wire 430 ohm lines installed for 50 and 140 mhz. New rotator/indicator control cable with hi and lo speeds.

That W3SMK, Jim Perkins, is a real sport in his Mercedes 250 SL conv't. and him a grandpop three times over! Busy selling paper and will be able to supply RTTY tape to any members requiring same.

That the February meeting will be home brew night - start working on your project now.

The next DIRECTORS MEETING will be held on December 10 at the QTH of W3MVF, Dave Bloch, 6922 Revere St., Philadelphia, Pa. Please call if you cannot attend (333-0811).

The next REGULAR MEETING will be held on Wednesday, December 17, at the West Oak Lane Jewish Community Center, Sedgewick and Thouron Sts., Philadelphia. Topic: Contest Strategy. Note - This is a closed meeting.

\* \* \* \* \*

"Mickey Farad and Millie Amp"

Mickey Farad and Millie Amp  
Chanced to meet in a radio lamp  
Mickey was enthroned between plate and heater  
He said of course, "He was glad to meet her".

Millie's path was blocked by a resistor  
Mike knew a by-pass to assist her  
Joining their hands in regal decency  
They hummed together in resonant frequency.

Millie lagged with some reluctance  
Knowing Mike had great inductance  
Because of their diverse admiration  
Unknowingly, they emitted some spurious radiation.

Mickey was fixed, also variable  
Millie became stable a condition most admirable  
The grid was steady driving the amplifier  
Midst the steady hum from the rectifier.

The "Ham" was content reading the dials  
Knowing Millie also, her trials  
Quite sure some R. F. was emitting  
He was using a "Bucket of Bolts" for transmitting.

By: W4SGR, Fredrick

(VIA AREA)

# SEASONS GREETINGS

to the

## Pack Rats



THE HAMPTON COLLIES - W3CJU

DR. CARL A. RILLING AND FAMILY  
( OM OF WA3HTT )

BEST WISHES TO ALL  
WA3CND AND THE CANDY FAMILY




W3GEW AND FAMILY  
SID, EDITH, GIL AND BETTE

MOTHER RAT, FRANKIE - W3SAO -  
AND JR OF PFC HARRY

K3GAS - DOC OUTLER

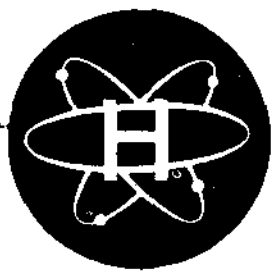
FROM THE STAFF OF CHEESE BITS  
K3GAS - K3JJZ - WA2KOI - K3MXM  
and all the guys who put the paper  
together every month at Doc's place

W3BK - 73's - GEORGE

<p><b>morton d. mazer</b> WA3EPS REAL ESTATE</p> <p>1609 E. WADSWORTH AVENUE PHILADELPHIA, PENNA. 19150</p> <p>(215) CH 8-1692</p>	 <p>PHONE: 662-6114</p> <p><b>BARRACKS TRADING POST</b> Camping - Electronics Canvas</p> <p>RT. 38 of RUDDEROW AVE., MAPLE SHADE, N.J.</p> <p>HARVEY PRIMOST</p>	<p>K3MXM</p> <p>LEE A. COHEN</p> <p>CLAYTON L. HAGY &amp; SON INCORPORATED 4527-31 HEDGE STREET PHILADELPHIA, PA. 19126</p> <p>WIPING RAGS POLISHING CLOTHS COTTON &amp; WOOLLEN WASTE</p>
<p>LDusk 7-7130</p> <p>K3KTY</p> <p>TRANSPORT EQUIPMENT COMPANY <i>"Everything for the Truck"</i></p> <p>JOHN A. TATE HOME PHONE: OR 3-8840</p> <p>2215-2217 RACE STREET PHILADELPHIA, PA. 19103</p>	<p>YOUR BUSINESS CARD AD RUN HERE</p> <p>ONLY \$1.00 PER MONTH</p> <p>CONTACT: K3MXM, LEE COHEN 8242 BROOKSIDE AVE. PHILA., PA. 19117 215 - 635-4942</p>	<p>449-2300</p> <p><b>KASS ELECTRONICS DISTRIBUTORS</b></p> <p>DISTRIBUTORS OF RADIO - TELEVISION PRODUCTS INDUSTRIAL ELECTRONIC PARTS &amp; EQUIPMENT</p> <p>2502 TOWNSHIP LINE ROAD (WEST OF LANSDOWNE AVE.) DREXEL HILL, PA. 19026</p>
<p>K3WGK</p>  <p>DON COOPER Cooper-Clement Associates 835 Glenside Ave. Wyncote, Pennsylvania Code 215-548-5460</p>	<p>PIONEER 4-2626 - 27</p> <p>WA3JSR - BEN</p> <p><b>G &amp; G Metal Products</b></p> <p>STEEL FABRICATION - FORMING AND STAMPING SPOT WELDING - ARG WELDING</p> <p>1709-19 GILLINGHAM STREET PHILADELPHIA 24, PA.</p> <p>B. GINSBERG</p>	 <p><b>A. G. RADIO PARTS CO.</b></p> <p>939 TOWNSHIP LINE, ELKINS PARK, PA.</p> <p><b>W3BHR</b></p> <p>5076 TU 6-906</p>

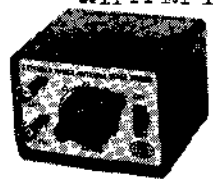


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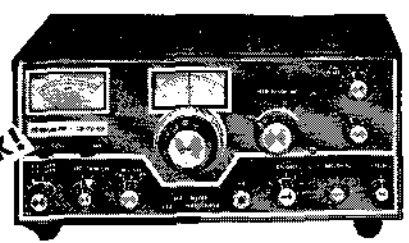
- |                                |         |       |
|--------------------------------|---------|-------|
| PL259 Coax Connector           | 5 for   | 2.25  |
| MIDLAND SWR Bridge             | 23- 126 | 12.95 |
| MARS SW10 SWR Bridge           |         | 18.95 |
| STANDARD Headphones            | 21- 300 | 1.99  |
| MONARCH Generator Noise Filter |         | 2.95  |
| ASTATIC GD104 PTT Mike & Stand |         | 25.00 |
| FEDTRO 5RD 5" Outside Horn     |         | 7.95  |
| TREVOSE Spray Contact Cleaner  |         | .99   |
| 102 inch Whip + Base + Spring  |         | 7.99  |

WE'RE  
MAKING  
BIGGER  
AND  
BETTER  
DEALS

## DRAKE TR-6

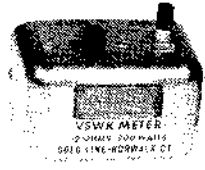
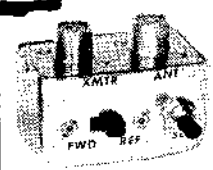


IN STOCK!



## SWAN 250 C

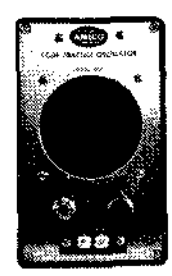
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GOOD TO 250 Mc.  
worlds smallest  
swr bridge. stop in  
and see it.

- Small and perfect for inline mobile applications.
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**14<sup>85</sup>**



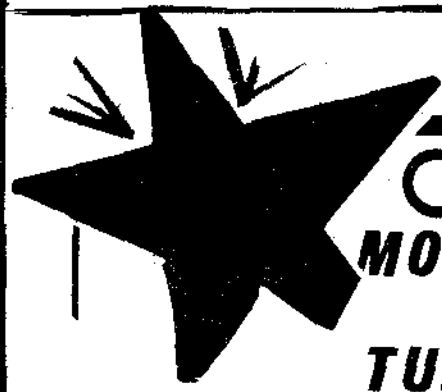
## CODE PRACTICE OSCILLATOR MODEL OCP

A solid-state code practice oscillator featuring a built-in speaker and two transistors. Tone control on front panel provides a variable pitch over a wide range. Headphones may be plugged into a jack on the front panel. The unit is housed in an attractive bakelite cabinet with a brushed silver front panel.

Model OCP, wired and tested — \$ 7.95

EL7 1400

SK75300

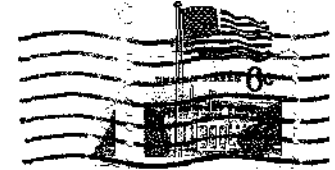


**OPEN EVENINGS**  
MON. 9 AM TIL 9 PM  
TUES. WED. SAT. 9 AM TIL 6 PM  
THURS. FRI.



Pack Rat Cheese Bits  
 8533 Algon St.  
 Phila. Pa., 19152

-10-



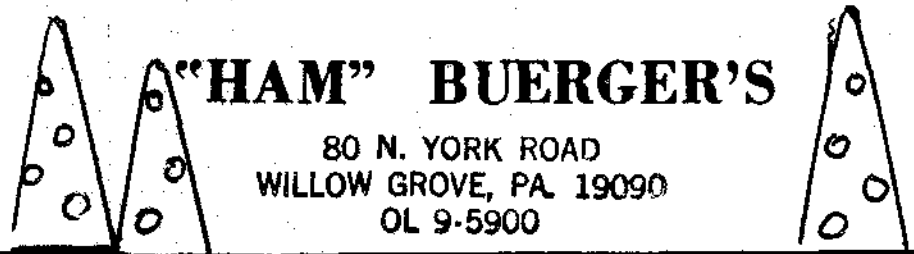
**PACK RATS**

W3KKN, Ernest Kenas  
 2823 Old Welsh Rd.  
 Willow Grove, Pa. 19090

**MEETING NOTICE**

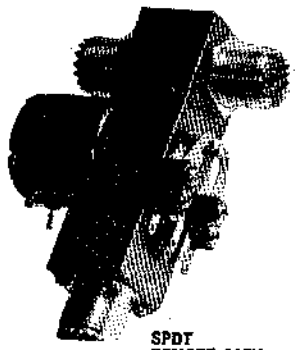
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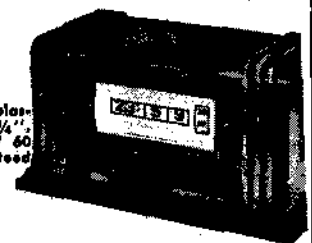
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 REMOTE 115V ac  
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 7" x 3" x 2"  
 \$18<sup>95</sup>



6146B  
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Walnut or ebony plas-  
 tic case. H4", W7 3/4",  
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 cy. A.C. Guaranteed  
 1 year.



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LICENSE  
 MANUAL

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WV-4

**RF Wattmeters**

Fwd and refl pwr directly in watts •  
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 ±(5% of reading + 1% of full scale)

Model	Range	Full Scale	Price
W-4	1.8-54 MHz	200/2000W	\$49.50
WV-4	20-200 MHz	100/1000W	\$73.50

**ROHN**



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 FRI. 5.30 - 9.30  
 TUE. 9.30 - 1.30  
 THURS. 9.30 - 9.00  
 WED. 9.30 - 9.00

