Quality Easily Recognized
Every instrument is guaranteed.

Radios, recorders, standard resistance boxes, decade resistance boxes, low loss variable air condensers, wave meters, radio arm boxes, audibility meters, bridge condensers, decade condensers, and decade meter shunt calibrators are manufactured by the General Radio Company.

These instruments include:

- Wave meters
- Radio arm boxes
- Audibility meters
- Bridge condensers
- Decade condensers
- Decade meter shunt calibrators

Information and bulletins on special apparatus will be sent on request.

The products of the General Radio Company are the result of careful engineering and a thorough knowledge of the requirements of laboratories and industries.

Since 1915 the General Radio Company has done important work in radio and electrical laboratories.

The General Radio Company was the first company to supply closed circuit audio equipment and the first to produce the present-day efficiency of broadcast reception.

Radio experimental work and in radio manufacturing radio apparatus for use in laboratories and for the purpose of educational and research work.
FOREWORD

In buying radio apparatus it is always well to remember that Radio is a Science depending upon definite electrical principles.

It, therefore, requires instruments that are scientifically correct — mechanically and electrically.

The radio apparatus described in this catalog has been developed by experienced radio engineers after extensive research and careful study of actual operating conditions. This development work has been conducted in the well-equipped electrical laboratories of the General Radio Company.

All General Radio parts are constructed to meet the most exacting requirements of radio broadcast reception, and are of the same high standard of materials and workmanship as the radio laboratory instruments manufactured by the General Radio Company.

The prices listed in this catalog are as low as the highest quality of materials, workmanship, and manufacturing methods permit. Prices are revised and correct to October, 1926, subject to change without notice.

The General Radio Company has endeavored to make it possible for the experimenter to obtain its products with a minimum of effort. A careful selection of distributors and dealers has been made. They are best fitted to serve you. If, however, you are unable to obtain our products in your particular locality they will be delivered to you, postpaid, direct from the factory upon receipt of list price.

When ordering by telegraph specify quantity and our code word.

Unless otherwise instructed we shall use our own judgment regarding method of shipment.

GENERAL RADIO CO.
30 State Street Cambridge, 39, Mass.
**Power Amplifier and Plate Supply**

**Type 400**

Voltage drops at the various taps per milliamperes lead are as follows:

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Milliamperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>129</td>
<td>10</td>
</tr>
<tr>
<td>85</td>
<td>15</td>
</tr>
<tr>
<td>50</td>
<td>20</td>
</tr>
</tbody>
</table>

Open circuit

Current drop per milliamperes:

<table>
<thead>
<tr>
<th>Current (A)</th>
<th>Milliamperes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>100</td>
</tr>
<tr>
<td>0.8</td>
<td>200</td>
</tr>
<tr>
<td>0.4</td>
<td>400</td>
</tr>
</tbody>
</table>

The Type 400 unit uses the Receiver UX-213 receiver tube and the UX-172 power tube in the amplifier.

The Type 400 unit requires no further attention and is ready for years of uninterupted service.

One internal tube requires no further attention and is ready for years of uninterupted service.

Voltage drops at the various taps per milliamperes lead are as follows:

- 129 V at 10 mA
- 85 V at 15 mA
- 50 V at 20 mA

Open circuit

Current drop per milliamperes:

- 1.2 A at 100 mA
- 0.8 A at 200 mA
- 0.4 A at 400 mA

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The Type 400 unit uses the Receiver UX-213 receiver tube and the UX-172 power tube in the amplifier.

The Type 400 unit requires no further attention and is ready for years of uninterupted service.

One internal tube requires no further attention and is ready for years of uninterupted service.
and noisy tendencies of variable resistance voltage controls.

The Type 405 unit has four positive plate voltage taps, providing voltages of 45, 90, 130 and 200.

The voltage drops at the various taps per milliampere load are as follows:

<table>
<thead>
<tr>
<th>Tap</th>
<th>Open</th>
<th>Rate of drop per milliampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>55</td>
<td>2.35 volts</td>
</tr>
<tr>
<td>90</td>
<td>132</td>
<td>3.50 volts</td>
</tr>
<tr>
<td>130</td>
<td>205</td>
<td>3.10 volts</td>
</tr>
<tr>
<td>200</td>
<td>260</td>
<td>1.80 volts</td>
</tr>
</tbody>
</table>

Type 405 Plate Supply, with BH Raytheon Tube...........................$46.00
Dimensions 9½” x 7” x 6”. Weight 13 lbs.
Code Word: “ANODE.”

**TYPE BH RAYTHEON TUBE**

The Raytheon tube possesses characteristics which make it particularly well suited to use in the plate supply circuit. Unlike the thermionic tubes, the Raytheon tube has no filament. This feature not only removes a possibility of accidental damage to the tube, but also eliminates the limiting factor of the ordinary type of tube’s life. It will supply enough current for multi-tube sets, its maximum output being 80 milliamperes.

Another feature of this tube is that by the inclusion of two anodes, double wave rectification is secured in one tube. This results not only in a great increase in the efficiency of the device, but also reduces the amount of hum in the output.

Type BH Raytheon Rectifier Tube............................................$6.00
Code Word: “RAYTHEON.”
Filter Chokes

Type 366

Code Word: "Tenor"  
Dimensions: 4½” x 3½” x 4½”, Weight: 4½ lbs.

The Type 366 Filter Choke is mounted in the same type and size of case as the Type 35 Transformer. The case is the complete shielding and in a block Japanese model which is in full with the internal Filar supply.

Type 365 Rectifier Transformer

Provides both complete shielding and an internal Filar assembly. The 365 Transformer is mounted in a black Japanese model case which is in full with the internal Filar supply.

Rectifier Transformer

Type 365

With the development of self-oscillating and tubeless rectifying devices...
Type 390

RECTRON POWER AMPLIFIER AND PLATE SUPPLY KIT

The above illustration shows the Type 390 Rectron Plate Supply and Power Amplifier kit fully assembled and ready for operation.

This unit is supplied in knocked down form similar to the Type 395 Raytheon unit shown on the opposite page.

The kit contains all parts necessary to the construction of a Power Amplifier and Plate Supply using the UX-213 Rectron Rectifier tube and UX-171 Power Tube in the amplifier and includes a drilled baseboard, cord with wall plug, switch, binding post strip, binding posts, and all screws and nuts. In characteristics and performance it is exactly the same as the complete Type 400 unit described on page 9231.

The assembled unit operates from 110 volt (60 cycle) A.C. and provides voltages of 45 and 90, for the receiver and supplies a plate voltage of 180 direct to the power tube together with the necessary grid bias for this tube.

Type 390 Rectron Kit, without tubes.................................................. $47.50

Dimensions 15” x 7½” x 4¾”. Weight 17½ lbs.

Code Word: “ANVIL.”
Type 395 Raytheon Kit, without tubes

$50.00

and screws and nuts.

Type 365 Raytheon Transformer is supplied free with Type 395 Kit, and is ready adaptable to any tube or tubes for use in any of the various popular receiver circuits. It opens from 110 volt (60 cycle) A.C., and is readily adaptable to any tube circuits for use in any type of receiver. The Type 395 Kit is designed to use the new Type RH Raytheon tube, assembled is similar in appearance to the unit described on the previous page.

This unit is supplied in knock-on form and shown above, and when

Raytheon Power Amplifier and Plate Supply Kit

Type 395
Type 285
1 to 6 ratio
Type 285-L
1 to 2 ratio
Type 285-D
1 to 3 ratio

TYPE 285
AUDIO AMPLIFYING TRANSFORMERS

In order to improve both the upper and lower ends of the amplification curve, transformers must be designed in such a way that they will not have a high distributed capacity, but at the same time will have high inductance values.

This has been accomplished in the new Type 285 transformers by using a larger core of a very high quality of selected steel and properly adjusting the coil turns.

In some instances a single stage of amplification using the 1:6 ratio transformer is satisfactory. Where additional amplification is required a second transformer having a lower ratio, 1 to 2, is provided. In many cases, particularly in the vicinity of broadcasting stations, two 1 to 2 ratio transformers are sufficient. This combination gives an intense volume with amazing purity of tone.

Type 285 Amplifying Transformer, 1 to 6 ratio ................................................. $6.00
Code Word: "TOKEN."

Type 285L Amplifying Transformer, 1 to 2 ratio ................................................. $6.00
Code Word: "TOPAZ."

The new General Radio Type 285-D has been designed specifically for use in the first stage of audio amplification following the new 200A detector tube. It produces very noticeably better tone quality than is possible with other transformers having a lower input impedance.

The transformer, however, gives excellent results with other tubes in either the first or second stage of amplification, but is particularly recommended for the UX-200A. It has a turns ratio of 1:3.

Type 285-D Audio Transformer ................................................................. Price $6.00
Code Word: "TOTEM."
Dimensions 3½" x 3¾" x 2½". Weight 1½ lbs.

The UNIVERSAL STANDARDS of RADIO

9236
Code Word: "TONIC"

Dimensions: 3¾" x 3¾" x 2½". Weight: 1½ lbs.

$3.00

The Type 369 Coupling Impedance

These model cases, identical in size and appearance with the Type 285 Transformers, are a combination of simplicity and quality. They have long been waiting for amplifiers which will find in the Type 369 a coupling impedance that will give them the amplifiers will find in the Type 369 a coupling impedance that will give them

Those who are familiar with the use of resistance or impedance couplers.

By using a choice of sufficiently high impedance, a quality of reproduction can be obtained which could not be distinguished from that obtained by the use of other methods of coupling if one is willing to dispense with the gain in amplifier efficiency. It is by this means that the transformer coupled amplifier can be obtained by the use of higher in the lever, somewhat better quality can be obtained by the use of

While the greater efficiency of the transformer coupled amplifier comes

Many experiments are now engaged in a search for a perfect amplifier.
Type 387

SPEAKER FILTER

The Type 387 Speaker Filter is designed to adjust the impedance of all standard amplifier tubes to the cone type Western Electric and other similar speakers, thus producing a very noticeable improvement in quality of reproduction.

The action of most loudspeakers is affected by plate currents of more than a few milliamperes and the function of the filter is to protect the speaker windings from the direct current while allowing an unimpeded flow of alternating frequency current.

The 387 is capable of covering a very wide frequency range so that no distortion is introduced and may be used in an impedance range of from 3,000 to 25,000 ohms. In installing the Type 387 it is simply necessary to connect the filter primary to the output of the amplifier and the secondary to the speaker unit.

Type 387 Speaker Filter

Price $6.00

Dimensions 3½" x 4" x 4½". Weight 3 lbs.

Code Word: "TOWEL."

Type 367

OUTPUT TRANSFORMER

This transformer is similar in appearance to the Type 285 Amplifying Transformer and is particularly adapted to use between the UX-112 tube and a Western Electric or similar cone type loudspeaker. It serves to adapt the output impedance of the amplifier tube to the input of the speaker, with the result that very marked improvement in tone quality is produced. In connecting this instrument in the circuit it is simply necessary to connect the primary to the amplifier output and the secondary to the speaker input.

Type 367 Output Transformer

Price $5.00

Dimensions 3¼" x 3¼" x 2½". Weight 2½ lbs.

Code Word: "TESTY."
The type 331 Tuned Transformer has an air core and has close coupling between the primary and secondary windings. The fixed tuning condenser is mounted inside the attractive moulded bakelite case that encloses the unit. The mounting holes are the same as those of the type 211 Transformers. The type 331 Transformer has no air core and has close coupling between the primary and secondary windings. An excellent combination for 30 K.C.H. amplification is the type 211 Transformers and one type 331 Amplifier. The Amplifier provides the necessary tuning to enable the type 211 Transformers to operate with the output capacity of the type 331 Tuned Transformer. In order that the amplification may be over a narrow a band as is practical to work a single or double tuned frequency transformer is desirable. In some circuits amplification at a peak frequency of the medium frequency range may be obtained.

**Tuned Transformer**

*Type 331*

**Code Word:** TUNED

Dimensions: 2½" x 2¼" x 2½". Weight: 6 oz.

5.000

**Type 211 Medium Frequency Transformer**

*Code Word:* MTFP

Dimensions: 2½" x 2¼" x 1½". Weight: 6 oz.

5.000

The type 211 Medium Frequency Transformer is used with conventional mounting holes and terminal posts with binding screws.

The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. The whole unit is enclosed in an attractively moulded bakelite case. 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TYPE 268 VARIO COUPLER

The Type 268 Vario-coupler covers the band of wavelengths from 60 to 600 meters, which includes practically all popular radio broadcast reception. This instrument is especially compact and very efficient in circuits which require a high grade coupler.

Both the rotor and stator forms are of genuine moulded bakelite and are wound with green silk covered wire. The metal parts are of nickel finish. The bearings are exceptionally accurate and smooth running so as to insure uniform operation over long periods of use.

Mounting to panel is by means of a convenient and rugged mounting bracket. Necessary screws and nuts are provided with each instrument.

Type 268 Vario-coupler
Dimensions 4" x 4" x 2½". Weight 6 oz.
Code Word: "VALET."

$2.75

TYPE 269 VARIOMETER

The outstanding features of the Type 269 Variometer are its size and its efficiency of operation.

It is much smaller than the average variometer which gives it a decided advantage where compactness and portability of the set are considerations. It is equally efficient mechanically and electrically and has a maximum to minimum inductance range of 660 to 60 microhenries.

The stator and rotor forms are of genuine moulded bakelite, wound with green silk covered wire. Terminals are very accessible, and a soldering lug is provided for using the instrument in circuits requiring split variometer connections. The bearings are accurate and very smooth running.

All metal parts are brass with nickel finish. Panel installation is made easy by a convenient mounting bracket.

Type 269 Variometer...$5.00
Dimensions 4¾"x3"x1¾".
Weight 7 oz.
Code Word: "VALID."
The Universal Standards of Radio

274-A Base with 3 jacks
274-B Base with 4 jacks
274-C Base with 2 jacks
274-P Contact Plug
274-P 50 Century 10" jacks

Cold Mounting Accessories

Dimensions 3½" x 2½". Weight 5 oz.

7½
1.75
1.50
1.25
0.50
31.25
5.00
1.00
0.90

CHROME
VICTOR
VICT
VIREN
VAPID
VATOR
WAVES

and coils may be used interchangeably in the coil mounting bases.

Mounting holes are arranged so that Type 274-P plugs may be inserted.

Waves of 50-150, 100-350, and 200-600 meters respectively.

When used with 500 in. R., condensers these coils have wavemagnification.

Type 277-A, 277-B, 277-C, and 277-D are of the 277-A type.

The inductance of the 277-A, B, and C coils and of the large windings.

The inductance of the coils, and D of the large windings.

Inductance and Coupling Coils

The Type 277 coils are so shaped in ratio of diameter to length; the magnet.
TYPE 247-H

VARIABLE CONDENSER
with Vernier Gear

The tuning of radio circuits can best be accomplished both from a range and simplicity viewpoint by the use of variable condensers. Because of this, much attention has been given to their design with the result that today high quality condensers are available at very moderate prices.

The General Radio Company has been very closely associated with condenser development and has contributed much to the science of radio in condenser design. In 1915 it supplied the first low loss type of condenser.

During the war General Radio condensers were used by the U. S. government in connection with superheterodyne and other circuit developments. In 1922 the present low loss soldered type was introduced.

Type 247-H, 500 M M F. Panel mounting, with gear $5.00
Dimensions 4" x 4" x 4½". Weight 1½ lbs.
Code Word: "COMIC."

Type 247-P, 350 M M F. Panel mounting, with gear $4.75
Dimensions 4" x 4" x 4½". Weight 1 lb.
Code Word: "ABBEY."

Type 247-M, 250 M M F. Panel mounting, with gear $4.50
Dimensions 4" x 4" x 4". Weight ½ lb.
Code Word: "CIGAR."
Code Word: "CARRGC."
Dimensions 4" x 4" x 4.5". Weight 7 lb.
Type 247-K, 250 N M F. Panel mounting, without gear.

Code Word: "ABASE.
Dimensions 4" x 4" x 4.5". Weight 7 lb.
Type 247-N, 350 N M F. Panel mounting, without gear.

Code Word: "COCOA.
Dimensions 4" x 4" x 4". Weight 1 lb.
Type 247-P, 500 N M F. Panel mounting, without gear.

54.00

Parts which are grounded to the conductor tubes
have metal end pieces which are removed by pliers
hard rubber end piece type while the 334 and 344
condensers are the
The two types of condensers are used. Type 247
condensers are the
The two types of condensers are used. Type 247
condensers are the

There are two general types of design of the insulators (hard rubber) end.

The insulators are carefully centered balanced. Where slow motion is desired to
secure smoothness in operation and uniformity of winding longe

In the selected place of the condensers are selected

WIRE COUNTERWEIGHT

ADJUSTABLE CONDENSER

Type 247-P.
MOUNTED VARIABLE CONDENSER

Experimental radio receiving sets require condensers capable of extreme accuracy in capacity variation. The Types 247-E, G, J, and L Condensers definitely meet this demand. They are mounted in a metal case finished with a black crystalline finish, the same as is used on expensive laboratory instruments. This case is grounded to the rotor plates, thus shielding the condenser and eliminating many of the disturbing effects due to bringing the hand near the condenser.

The minimum capacity of these condensers is approximately 20 micromicrofarads. This low value makes a wide range of wavelengths possible when the proper coils are used.

In addition to the regular degree graduations of the etched metal dial, this dial is marked with a scale to show capacity measurements in micromicrofarads. This is a unique and valuable feature for radio receiving condensers, and it enables the operator to know at all times just what capacity he is using.

Type 247-E, 500 M M F. mounted, without gear ........................................... $6.25
Dimensions 5" x 5" x 4½". Weight 2 lbs.
Code Word: "COUPE."

Type 247-G, 500 M M F. mounted, with gear ........................................... $7.25
Dimensions 5" x 5" x 5½". Weight 2¾ lbs.
Code Word: "COLIC."

Type 247-J, 250 M M F. mounted, without gear ........................................... $5.75
Dimensions 5" x 5" x 4½". Weight 1¾ lbs.
Code Word: "CANON."

Type 247-L, 250 M M F. mounted, with gear ........................................... $7.00
Dimensions 5" x 5" x 4½". Weight 1¾ lbs.
Code Word: "CAROM."
The Universal Standards of Radio

Code Word: "BRAVO"
Dimensions: 3¾" x 3¾" x 6¼" Weight: 2 lbs 2 oz.

Code Word: "BOXER"
Dimensions: 3¾" x 3¾" x 5½" Weight: 2 lbs.

Code Word: "BOSON"
Dimensions: 3¾" x 3¾" x 4¼" Weight: 1½ oz.

Code Word: "BONUS"
Dimensions: 3¾" x 3¾" x 3¼" Weight: 1½.

Grounded Rotor Type

Striped-Line Frequency Condenser

Type 374-R

Parts and Accessories
Type 334-F

VARIABLE CONDENSER
Grounded Rotor Type

In many popular receiving circuits the shielding of a condenser is important. To meet this specific need the Type 334 Condensers have been designed which have metal end plates and grounded rotor.

The rotor and stator units are the same as used in the Type 247 Condensers, and good conductivity is assured through solder-sealed contacts. The advantages of the soldered plate condenser are now well established in the minds of radio engineers.

End plates are of aluminum and condenser plates are of brass. The Type 334 Condensers are made in panel mounting models only, with and without geared vernier.

For manufacturing uses we are prepared to supply this condenser in multiple sections under Hogan patent No. 1,014,002.

The construction of the Type 247 and 334 Condensers is also protected under General Radio patent No. 1,542,995.

Type 334-F, 500 M M F. Panel mounting, without gear............................$4.25
  Code Word: “BEGIN.”
Type 334-H, 500 M M F. Panel mounting, with gear.................................$5.25
  Code Word: “BELAY.”
Type 334-N, 350 M M F. Panel mounting, without gear............................$4.00
  Code Word: “BESET.”
Type 334-P, 350 M M F. Panel mounting, with gear.................................$5.00
  Code Word: “BEVEL.”
Type 334-K, 250 M M F. Panel mounting, without gear............................$3.75
  Code Word: “BELOW.”
Type 334-M, 250 M M F. Panel mounting, with gear...............................$4.75
  Code Word: “BERYL.”

Dimensions 3 3/4” x 3 3/4” x 4 1/2”. Weight 1 1/2 lbs.
TANDEM CONDENSER

Type 24X-K

The tandem condensers are assembled of small and sectioned
Type 24X-2 units each of 500 M. F. capacity

Dimensions: 3 3/4" x 3 3/4" x 3 3/4" Weight 1 lb. 4 oz.

$6.50

These condensers are particularly compact and rugged. Terminals are
designed, and electrode condensers for wear
in operation and designed to be removable, for easy
The units are on opposite sides of the shield and perfectly balanced.
unscrewable, so that the individual units may be detached from the
so arranged that the sections of the individual units may be connected in
different circuits of the total capacity of each section may be connected in

When the ends of the plates are of hard rubber, rectangular in shape and with the
The condensers are of the general form, and the carbon

The Type 24X tandem condensers are assembled of small and sectioned
of one circuit, particularly in ruined radio frequency sets.

The leading edge is in radio today is to simplify the operation of a receiving
particulars, and the carbon

The most popular method of secion-

The leading edge is in radio today is to simplify the operation of a receiving

The leading edge is in radio today is to simplify the operation of a receiving

The leading edge is in radio today is to simplify the operation of a receiving

The leading edge is in radio today is to simplify the operation of a receiving
TYPE 334
TRANSMITTING CONDENSER

The Type 334-T and V condensers are similar in appearance and assembly to all other Type 334 condensers except that they have double spacing for use in short wave transmitting on voltages up to 2000. They have metal end plates. Plates of the rotor and stator groups are soldered to insure perfect electrical contact. The Type 334 transmitting condensers are supplied with counter weights only.

Type 334-T Transmitting Condenser, Capacity 100 M M F., Price $4.25
Code Word: “BILLY.”

Type 334-V Transmitting Condenser, Capacity 50 M M F., Price $3.75
Code Word: “BIPED.”
Dimensions 3¼" x 3¼" x 4". Weight 1 lb. 4 oz.

TYPE 368 MICRO-CONDENSER

A small balancing condenser is often required in sets employing the recently developed circuits. Such a condenser should be as small as practical, and the mounting should be simple, preferably of the one-hole type. Such a condenser is available in the Type 368. This condenser has a maximum capacity of 15 M M F. It is of our standard low-loss soldered-plate type.

Type 368 Micro-Condenser, 15 M M F. $1.25
Dimensions 2" x 2" x 1⅞”. Weight 2 oz.
Code Word: “BULLY.”

Type 368-B Micro-Condenser 50 M M F. $1.50
Dimensions 2" x 2" x 2”. Weight 2½ oz.
Code Word: “BURIN.”
Laboratory Condenser

Type 239

Parts and accessories
Type 247-W

WAVEMETER AND FILTER

The selectivity of a receiving set is greatly improved by a radio filter. Interference from various sources may also be reduced to a minimum by use of a reliable filter.

The Type 247-W Wavemeter is ideally adapted to this purpose. The filter coil may be connected either in series or parallel with the receiving set. When used in series connection a single interfering broadcasting station may be eliminated. The parallel filter is used to eliminate several interfering stations simultaneously and accept only one station within the filter range.

The range of the 247-W Wavemeter is 200 to 600 meters. Wave-lengths may be determined by direct readings from the condenser dial which is calibrated with an accuracy of 2%.

A full set of instructions accompanies each instrument.

Type 247-W Wavemeter and Filter.................................................. $10.00

Dimensions 5" x 4½" x 8". Weight 2½ lbs.

Code Word: “WAGON.”

When longer or shorter wavelengths are desired Types 247-W2, 247-W½, and 247-W¾ Extension Coils may be used interchangeably.

Type 247-W2 Extension Coil (400-1200 meters)............................ $3.00

Dimensions 4" x 4" x 3". Weight 6 oz.

Code Word: “VOCAL.”

Type 247-W½ Extension Coil (100-300 meters)............................ $3.00

Dimensions 4" x 4" x 3". Weight 6 oz.

Code Word: “VIZOR.”

Type 247-W¾ Extension Coil (50-150 meters)............................ $3.00

Dimensions 4" x 4" x 3". Weight 6 oz.

Code Word: “VIVID.”
Code Word: "UPPER"
Dimensions: 11.4" x 7.4" x 5.7/8". Weight: 4/4 lb.

$22.00

The Universal Standards of Radio

Type 358 Wave meter complete

Provides proper protection for the instrument when not in use.

The condenser, coils and chart are contained in a wooden box which

<table>
<thead>
<tr>
<th>Coil</th>
<th>105 to 220</th>
<th>94 to 114</th>
<th>54 to 76</th>
<th>26 to 56</th>
<th>14 to 28</th>
</tr>
</thead>
</table>

Each wave-meter is calibrated by means of four coils.

The waveform chart is covered by means of your coils.

Type 358 Wave meter is designed particularly for

Amateur Wave meter

Parts and Accessories

General Radio
RHEOSTATS

Rheostats used in vacuum tube circuits must be so constructed and the contact so arranged that there is no possibility of a momentary opening of the circuit, or a sudden change of resistance in the circuit. Either of these would result in an objectionable click in the ear phones or loud speaker.

The resistance of the Type 301 Rheostat changes gradually and uniformly throughout its entire range, and thereby secures the same degree of control for all working conditions of the battery. With the tubes now available and with the gradual change of resistance provided by the Type 301 Rheostat no vernier attachment is necessary.

The resistance unit is tightly wound on a specially treated fiber strip. Genuine moulded bakelite is used for the base. A tapered knob with pointer indicates position of the contact arm. The shaft is ¾" in diameter and is arranged to fit panels up to 3/8" thick.

Type 301 Rheostat

<table>
<thead>
<tr>
<th>Resistance</th>
<th>Current</th>
<th>Code Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ohms</td>
<td>1.00 amp.</td>
<td>PALSY</td>
</tr>
<tr>
<td>12 &quot;</td>
<td>0.75 &quot;</td>
<td>REMIT</td>
</tr>
<tr>
<td>25 &quot;</td>
<td>0.5 &quot;</td>
<td>RENEW</td>
</tr>
</tbody>
</table>

In ordering be sure to specify resistance desired.

POTENTIOMETERS

The potentiometer is similar in general construction to the rheostat except that a third connection is provided and it has a greater resistance.

Type 301—200 ohm Potentiometer

| Code Word: “REBUS” |

Dimensions 2" x 1¾" x 2½". Weight 4 oz.

$1.25
The Universal Standards of Radio

Code Word: "SALTY"
Dimensions: 2" x 1 3/4" x 2 3/4". Weight 4 oz.

TYPE 410 Potentiometers

In general construction the potentiometer is similar to the rheostat except

In order to be sure to specify resistance desired:

<table>
<thead>
<tr>
<th>Type</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>6 ohms</td>
</tr>
<tr>
<td>12</td>
<td>100 amp.</td>
</tr>
<tr>
<td>&quot;</td>
<td>Current</td>
</tr>
</tbody>
</table>

Dimensions: 2" x 1 3/4" x 2 3/4". Weight 4 oz.

The difference between the SALTY and 410 are that the SALTY is mounted on panels up to 3/8" in thickness. The length of the bushing is such that the rheostat may be easily

The SALTY is 3/4" in diameter and the outside diameter of the bushing is 3/8". The shaft and the axis of the resistance unit of the switch and the axis of the resistance unit

The base is of genuine molded Bakelite. The tapered knob which is also

The resistance wire is wound on a specially treated strip.

The same

In electrical characteristics the SALTY and 410 are identical except

mount the rheostat to the panel.

In case of the SALTY 410, the bushing for the short circuits to

move the contact to the panel.

In the case of the short circuits to the panel are provided by many exper-

The 410 models are now available with the single pole, momentary feature.

The 410 models are now available with the single pole, momentary feature.

Rheostats

Type 410

[Images of rheostats]
RHEOSTATS

Where the best in rheostat construction is desired, and for laboratory use, the Type 214 is particularly recommended. This rheostat is made in two types, 214-A for back of panel mounting and 214-B for front of panel or table mounting. The Type 214 Rheostats are larger than the Type 301 Rheostats, and are therefore capable of a more gradual and accurate resistance control. It is similar in general construction to the Type 301, and embodies the best of materials and workmanship.

Type 214 Rheostat ........................................... $2.25
Dimensions 3" dia. x 2 3/4". Weight 7 oz.

CODE WORD

<table>
<thead>
<tr>
<th>Resistance</th>
<th>Current</th>
<th>Type 214-A</th>
<th>Type 214-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ohms</td>
<td>2.5 amp.</td>
<td>RUDDY</td>
<td>RUMOR</td>
</tr>
<tr>
<td>7 ohms</td>
<td>1.5 amp.</td>
<td>RURAL</td>
<td>RUSTY</td>
</tr>
<tr>
<td>20 ohms</td>
<td>0.75 amp.</td>
<td>RAZOR</td>
<td>READY</td>
</tr>
<tr>
<td>50 ohms</td>
<td>0.5 amp.</td>
<td>RAPID</td>
<td>RAVEL</td>
</tr>
</tbody>
</table>

POTentiometers

Many of the most efficient circuits now in common use require a potentiometer to control the grid potential. The Type 214 is supplied with a high resistance winding and a third connection which enables it to be used as a potentiometer capable of extremely fine voltage control.

Type 214—400 ohm Potentiometer ...................................... $3.00
Dimensions 3" dia. x 2 3/4". Weight 7 oz.
Code Word, Type 214-A, panel mounting: "ROSIN."
Code Word, Type 214-B, table mounting: "ROWEL."

The UNIVERSAL STANDARDS of RADIO
The polished nickle mounting screws are also provided above.

Each insulator is equipped with nuts and washers assembled as shown.

Other indoor or outdoor condenser insulators are also manufactured of glazed brown porcelain they may be used as they are also constructed of glazed porcelain.

A threaded rod connecting them make an excellent lead-in combination. Two of these insulators with side for supporting lead-ins or ground wires. May be used as foot or support wings of insulators, or may be used only.

Another convenient insulator is the Type 280 illustrated above.

WALL INSULATOR

Code Word: "Cruizer"

Type 280—Strain Insulator

0#15

Dimensions: 4/4 x 1/8 x 1" Weight: 4 oz.

conditions.

For antenna insulators, correctly designed porcelain strain insulators are to be preferred to other commercial types. Type 280 strain insulators are suitably illustrated above.

ANTENNA INSULATOR

PORCELAIN INSULATORS

Code Word: "Cruizer"

Type 280

Dimensions: 2 3/4 x 2 1/8 x 2 3/4 oz.

Weight: 4 oz.

0#25

Universal Standards of Radio Parts and Accessories
TYPE 349 SOCKET

This socket is designed for the UX types of tubes. Positive contacts are made with double gripping springs to the sides of the tube prongs. The base is of moulded bakelite.

Type 349 Socket

Dimensions 2½" x 2½" x ¾". Weight 2 oz.

Code Word: "SEDAN."

TYPE 346 ADAPTER

The Type 346 Adapter enables the UX-199 and UX-120 tubes to be used in standard tube sockets. The adapter is of moulded bakelite. A set-screw is provided for securing the tube base firmly in the adapter.

Type 346 Adapter

Dimensions 1½" x 1½" x ¾". Weight 1 oz.

Code Word: "AMASS."

TYPE 309 SOCKET CUSHION

Many of the undesirable noises heard in a radio set are due to the microphonic action of the tubes. This condition can be eliminated by the use of the Type 309 Socket Cushion under the Types 156, 299, and 346 Sockets. This cushion is of sponge rubber and gives complete protection. Mounting is from the tube socket to the cushion, then from the cushion to the sub-panel.

Type 309 Socket Cushion

Dimensions 2½" x 2½" x ¾". Weight 1 oz.

Code Word: "SABER."
Type 299 Socket

Code Word: "Slove"

Dimensions: 2 3/4" x 2 3/4" x 1 1/4" Weight: 2 oz.

Type 299 socket has been given to provide for a low resistance contact.

Special attention has been given to provide for a low resistance contact.

The springs of this socket, which is designed for the UV-199 tubes,

Type 156 Socket

Code Word: "Sobeer"


Type 156 socket is designed for tubes which were formerly known as W-12.

The drop-in type contact springs are so arranged as to make positive contact on the sides of the tube proper. The wiping action of the drop-in type contact springs assures a clean positive connection.

The base of the socket is designed to take the tube base locating pin.

The heavy brass base is designed to take the tube base locating pin.

Vacuum tubes must be provided with a tube mounting device.
HOT WIRE AMMETERS

The Type 127 Hot Wire Ammeters are equally accurate on direct or alternating currents of any frequency. They may be used for measuring filament currents, storage battery charging rates, antenna radiation, and many other purposes.

The expanding strip of these meters is of thin platinum, so as to prevent oxidation. It is so proportioned that it works at a low temperature and is of low resistance. These are two highly desirable features, since the former permits reasonable overloading without burning out, and the latter minimizes the losses.

The type of multiplying action is such that a more uniform scale is obtained than with many hot wire meters. These meters have been corrected for temperature so that there is very little shift of zero, and this is easily taken care of by the knurled adjusting screw.

These instruments are made in three types, the flush mounting for use on panels, the front-of-board mounting for use on switch boards, and the portable type for general use. The flush type meters are mounted in metal cases finished in black japan, while the front-of-board and portable types have cases of moulded bakelite.
The Universal Standards of Radio

Type 127-C

<table>
<thead>
<tr>
<th>Price</th>
<th>Case Code Word</th>
</tr>
</thead>
<tbody>
<tr>
<td>$0.50</td>
<td>Portable Motto</td>
</tr>
<tr>
<td>0.00</td>
<td>Portable Musey</td>
</tr>
<tr>
<td>0.00</td>
<td>Portable Miami</td>
</tr>
<tr>
<td>0.00</td>
<td>Portable Motor</td>
</tr>
<tr>
<td>0.00</td>
<td>Portable Molar</td>
</tr>
<tr>
<td>0.00</td>
<td>Portable Model</td>
</tr>
<tr>
<td>0.00</td>
<td>Portable Mocha</td>
</tr>
<tr>
<td>0.01</td>
<td>Portable Mocha</td>
</tr>
<tr>
<td>0.00</td>
<td>Case Code Word</td>
</tr>
</tbody>
</table>

Range

<table>
<thead>
<tr>
<th>Calorimeter</th>
<th>Meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mm/amps.</td>
<td></td>
</tr>
<tr>
<td>5 mm/amps.</td>
<td></td>
</tr>
<tr>
<td>2.5 mm/amps.</td>
<td></td>
</tr>
<tr>
<td>1 mm/amps.</td>
<td></td>
</tr>
<tr>
<td>500 mm/amps.</td>
<td></td>
</tr>
<tr>
<td>250 mm/amps.</td>
<td></td>
</tr>
<tr>
<td>100 mm/amps.</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions 3" x 1 5/8" Weight 9/16 oz.

Flush Mounting Front of Board

Type 127-A Type 127-B

Price $9.00

Parts and Accessories
MULTI-CONNECTOR PLUGS

For many experimental uses on radio work a plug and jack combination is far handier than binding posts. Particularly at high voltages, the conventional telephone type of plug is not practical. To meet this general need the Type 274-M Insulated Plug was developed.

By using these plugs any number of series or parallel combinations may be provided.

Type 274-M—Multi-Connector Plug.................................................. $0.50
Dimensions $1\frac{3}{4}$" x $1\frac{1}{2}$" x $\frac{5}{8}$". Weight 2 oz.
Code Word: "PATTY."

Similar to the Type 274-M Insulated Plug is the Type 274 Plug. Thumb screws are used in place of set screws to secure the contact wires. This plug, while somewhat more adaptable than the Type 274-M Insulated Plug should be used only with low voltages.

Type 274—Multi-Connector Plug, complete with jacks................................ $1.00
Dimensions $1\frac{1}{2}$" x $1\frac{5}{8}$" x $\frac{1}{2}$". Weight 2 oz.
Code Word: "PAPER."

TYPE 236 BY-PASS CONDENSER

It is often advisable to by-pass portions of a radio circuit with a condenser of fairly large capacity in order to reduce the audio frequency impedance of that portion of the circuit.

A by-pass condenser across the “B” battery is particularly helpful in eliminating oscillations in the audio amplifier, due to long leads, or a high resistance in the common “B” battery.

The Type 236 Condenser is impregnated with paraffin as wound, and mounted in a substantial metal container.

Type 236—.5 M.F. By-Pass Condenser............................................... $1.00
Dimensions 4" x 1\frac{1}{2}" x 1\frac{1}{8}". Weight 5 oz.

These condensers may also be supplied with capacities of .1, .2, .3 and .4 M.F. without change in price.
Code Word: "PECAN."
The Universal Standards of Radio

Dimensions: 4½" x 8½". Weight: 6½ oz. Code Word: "DEPOT"


Type 310—2½" in. Dial and Indicator.

Without Vernier Gear.

The Type 303 Dial is similar to those of Type 317 Dial except that it is a nickel finished screw and nut. The indicator or transanimation scale in black. The kind is of bake and screwed. The indicator of the transanimation scale is mounted by welding with the line being mounded by the transanimation scale. The indicator of transanimation scale is mounted by welding with the line being mounded by the transanimation scale. The indicator of transanimation scale is mounted by the transanimation scale.

The Type 310 Dial and Indicator.

Dial and Indicator

Dimensions: 4½" x 8½". Weight: 10 oz. Code Word: "PAINT"


Type 302—2½" in. Vernier Dial. For¼ in. Shale.

The Type 302 and 303 Dials are frosted silver finish.

Vernier Dials

Parts and Accessories

General Radio
STANDARD PARTS

Experimental work frequently requires certain standard parts. Consequently we are listing for the convenience of experimenters many of the parts used in the assembly of General Radio instruments. These parts have the advantage of matching those used on instruments already installed.

BINDING POSTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Diameter</th>
<th>Height</th>
<th>Screw Sizes</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>138A</td>
<td>Bakelite</td>
<td>¾&quot;</td>
<td>½&quot;</td>
<td>10-32</td>
<td>$0.25</td>
</tr>
<tr>
<td>138W</td>
<td>N. P. Brass</td>
<td>⅜&quot;</td>
<td>⅜&quot;</td>
<td>6-32</td>
<td>.12</td>
</tr>
<tr>
<td>138Y</td>
<td>&quot;</td>
<td>¾&quot;</td>
<td>½&quot;</td>
<td>10-32</td>
<td>.15</td>
</tr>
<tr>
<td>138Z</td>
<td>&quot;</td>
<td>¾&quot;</td>
<td>⅜&quot;</td>
<td>6-32</td>
<td>.10</td>
</tr>
</tbody>
</table>

SWITCHES AND PARTS

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>139A</td>
<td>Multiple Leaf Switch 1¾&quot; Radius</td>
<td>$0.95</td>
</tr>
<tr>
<td>171F</td>
<td>Single Leaf Switch ¾&quot; Radius</td>
<td>.40</td>
</tr>
<tr>
<td>202</td>
<td>Low Contact Resistance Switch ¾&quot; Radius</td>
<td>1.25</td>
</tr>
<tr>
<td>138C</td>
<td>¼&quot; Contact for 139A or 202 Switches</td>
<td>.05</td>
</tr>
<tr>
<td>138D</td>
<td>⅜&quot; Contact for 171F Switch</td>
<td>.04</td>
</tr>
<tr>
<td>138Q</td>
<td>Switch Stop with Nut</td>
<td>.05</td>
</tr>
<tr>
<td>137D</td>
<td>Moulded Knob (same as used on 139A Switch)</td>
<td>.35</td>
</tr>
<tr>
<td>137H</td>
<td>Moulded Knob (same as used on 317 Dial)</td>
<td>.75</td>
</tr>
<tr>
<td>137J</td>
<td>Moulded Knob (same as used on 301 Rheostat)</td>
<td>.25</td>
</tr>
<tr>
<td>137K</td>
<td>Moulded Knob (same as used on 247 Vernier)</td>
<td>.25</td>
</tr>
</tbody>
</table>

The Types 137D and J Knobs are for ¾" shaft, while the 137H may be supplied for either ¾" or ⅜" shafts. The 137K Knob is tapped for a 10-32 thread. The Types 137D and 137J Knobs may be supplied with polished nickel pointers for five cents additional.