“GR Inst List” My Documents/GR Archives/GR Inst List HPH **03/15/03, 01/17/14**

 6/25/16

 **GR Instruments and Parts**

Dates are of GR Experimenter or *GR Today*  articles

 Dates in () are other articles on item & later models

 Letters in () refer to catalogs, letters with - are versions (-B).

 Names are signed Authors, names of others who worked on item are in ().

 **In Bold: In Museum Collection \*** See file “Early Instruments not in Catalogs”

 **Underlined: on display in Westford Museum on May 02**

By Type Number:

 25-A Broadcast Frequency Monitor Jan 1940 J.K.Clapp

 50 Variac July 1939 S.A.Buckingham

 50-P1 Power Chokes “

 60-AM,-AU Variac Nov 1941 G.Smiley

 70 Variac May 1938

 **71 Variac May 1951 H.M.Wilson** (gift of C Wenzelberger)

 80 Variac May 1938

 90-B Variac Sep/Oct 1940

**100 Variac Sept-Oct 1934 100Q**

**­101 Condenser (A,B,C) 1915 Bltn 101 June 1920, See June 1930 101-L 101-M**

101-EX Extension Handle Bltn 916 Oct 1923

**102 Decade Resistor (A,C) Bltn 204 Dec 1920 102-E&G 102-C**

105 Wavemeter (A) 1916 See June 1930

**106 Standard Inductor (A to N) Bltn 301 June 1920 106-C 106-K?**

**107 Aryton-Perry Variable Inductor (A to R)) Burke Jan 1935, Unsigned June 1932**

108 Oil Condenser (A) 1916 -D .006, -F .0015

109-A 3-wire Receptical (P) July 1957

110 Spark Indicator (A) 110-M Vacuum Tube used in

111 10 Step Inductor (A) also 12 Step Inductor (C)

115 Thermo-Meter (for 105) (A) L.W.Austin Jour NBS No7 Vol.2

**119 R-F Choke \*See above Jan 1937**

120-A,-B,-C Standard Condersers (A) air, fixed

122 Audibility Meter (A)

123 Key have photo\* (see “Inst not in Catalogs”)

**124 Condenser 1916 (A) See June 1930**

**125 Phantom-Antenna Resistor (A,G)**

127 Hot Wire Ammeters, 3” (B,C,F) Bull 901 Jan 1920, Bull 932

128 Hot Wire Ammeters, 5”

129 Galvanometer (B)

**130 Slide-Wire Bridge 1918 (B) Bltn 203,208**

132 Portable Wavemeter (B)

133 Standard Resistor (A-G) Bltn 201

134 Thermo Couples (B,C)

137 Dials & Knobs (F) Bull 916 Oct 1923

**138 A-Z Binding Posts,Plugs** (F,G) Bull 916 Oct 1923

139A Multiple Leaf Switch (E) Bull 916 Oct 1923

140 Relay Key have photo \* (see Inst Not in Catalogs)

143-D Rectifier Tube (H)

145 Direct Reading Wavemeter (B,C)

147 Variabloe Air Condenser/Wavemeter (A) june 1923

149 Radio Transmitter have photo, see GR Radios on Misc CD

151 Flame Proof Key (C) 1915

**154 Voltage Divider (J)**

**156 Socket (E) Bull 916 Oct 1920**

158 Auxiliary Radio Transmitter have photo, see GR Radios on CD

159 Aperiodic Circuit (see old GR photos)

**160 Decade Bridge 1918 (B) Designed by Rawson?**

161 Antenna Reel have photo\*

**164 Audibility Mixer 1916 Bull 202 1920**

166 Amp & Tele Transformers (C) Bull 901 Jan 1920, Bull 932

168 Switch have photo\*

169 Vernier Condenser (C)

1**70 Hot Wire Galvanometer (C) Bltn 501 June 1920**

171 Single Leaf Switch Bull 916 Oct 1920

174 Direct Reading Wave Meter (C,F)

176 High Frequency Buzzer Bulletin 916 1923

177 Inductor Form Oct 1933

178 High-Frequency Buzzer (C) Bull 916 Oct 1920

182 Variable Air Condenser (C)

**189 Pointer Galvanometer (C) 189L**

190 Variometer 650mH Experimental ? Not in a catalog

191 Universal Wave Meter (C)

**193 Decade Bridge (B-F) 1919**

193-P1 Wagner Ground (F2) See Sept 1931 R.F.Field

**199 Galvanometer**

**200 Variac 200-CM ` June/July 1933 \*200CU, 200B**

202 Switch and Knob (E) Bull 916 Oct 1920

203 Audio Oscillator (fork) have photo (from B. Sargent)

206 1 Step Amplifier Bull 902 May 1920 have photo\*

**210 Ratio-Arm Box (F,G) Bull 903, Aug 1920**

211 Vacuum Tube Detector Bull 902, May 1920

213 Audio Oscillator (E,F,G) Bltn 701 Feb 1920, Apr 1930 C.E.Worthan -2 1000c, -C 400c

**214 Rheostats (E) Bull 901, Jan 1920**

215 2 Step Amplifier Bull 902, May 1920

216 Capacity Bridge (E,F,G) Bull 404, Jan 1921 see Jan 1930 RFF

**219 Decade Condensers (E,F) (11/42) 219-M**

221S Mica Condenser Have Photo

**222 Variable Condensor, (F) 1916-1936** (10/35 R.F.Field)

224 Precision Wavemeter (G) Bltn 702 April 1920, Sept 1929

**226 Four Step Inductor have sheet\* Bull 302, Aug 1920, Bull 916, Oct 1920**

229 Galvanometer Shunt (E,G) Bull 903, Aug 1920

231-A, Ampifying Transformer \* Bull 907 Apr 1921

231-M Modulating Tranformer Bull 907 Apr. 1921

**236 Paper Condenser \* Bull 924, 928 (in radio)**

239 Special Geared Condenser (E) Bltn 104 Aug 1922, (Variable Air)

240 Capacity Meter (E) Bull #409 Aug 1924 Morley Lush has one (a bridge)

241 Microphone Hummer (F)

246 Variable Air Condenser (E,G) Bltn 108 Nov 1923

**247 Variable Air Condenser (E,F) Bull 916 Oct 1923 see July 1931**

247-W Wavemeter and Filter (E) Bull 931 1929

248 Line-Amplifier Transformer (E)

**249 Attenuation Box (F) Aug 1927 H.W.Lamson**

260 Porcelain Insulator (E,G) Bulletin 916 Oct 1933 Feb 1933

268 Variocoupler (E,G) Bltn 919

**269 Variometer (E,G) Bltn 919**

271 Medium Frequency Transformer \* Radio Apparatus catalog, Bltn 918 May 1924

272 Power Amplifier Bull 912 Dec 1922

274 Jacks and Plugs (E) Bltn 919

275 Piezo-Electric Oscillator (E1,F) Bltn 718 1924 see Nov 1930 J.K.Clapp

**276 Quartz Plate (E1,F) Feb 1930**

277 Inductance and Coupling Coils (E) Bltn 919

280 Insulator (E) Bulletin 916 1923

282 Socket Bull 916 Oct 1920

283 Tube Protecting Resistance Unit Bltn 919 Radio Apparatus Cat

284 Line-Amplifier Transformers (E) Bltn 8201 Nov 1927

285 Audio Transformers (E) Oct 1927

**287 Direct-Reading Ohmmeter (E) Bltn 5051 Oct 1927**

289 Fader Recorder see June 1930

290 Piezo-Electric Oscillator (F2)

292 Audio Frequency Transformers \* Jan 1932

293 Universal Bridge (F3,G) Jan 1932 R.F.Field **293-P1**

**298 Meter Mountings (G)**

**299 Socket (E) Bull 916 Oct 1920 (in radio)**

300 Amplifier Unit \* Bull 916, Oct 1920

**301 Rheostat & Potentiometer (E,G) Bull 916 Oct 1920**

301-S104 Variable Delay Line Oct 1961 F.D.Lewis

302 Geared Dial (E)

303 Geared Dial (E)

304 Bakelite Dial Bltn 924

305 Combination Wavemeter & Filter \* Bull 710 Oct 1923

306 Crystal Set (Tom Vales has picture)

309 Socket Cushion (E) see July 1931

310 Dials (G)

314 Rheostats & Potentiometers (G)

317 Dials (F,G)

318 Dial Plate (F2) Apr/May 1933

320 180 K.C. Test Oscillator

321 Artificial-Cable Boxes (E)

329 Variable Attenuation Network (F) Sept 1927 H.W.Lamson

330 Filter Section (E,F,G)

**331 Tuned Transformer Bltn 924**

332 Station Frequency Meter Bltn 7100 July 1927 Bltn 716

**333 Rheostat & Potentiometer Feb 1933**

334, 335 Variable Air Condensers (E,F) May 1929

335 Variable Air Condenser (F) Bull 932 Sept 1930

337 Switch (E,F,G)

**338 String Oscillograph & Vibration Galvanometer (E,G) Bltn 717 1926 see Apr 1931**

339 Switch (F)

**340 Rheostat (E,F) (switched, in box)**

345 Audio-Frequency Transformer see June 1930

346 Adapter (E) (tube socket adapter)

348 Antenna Measuring Equipment 1929

349 Socket (E,G)

353 RF Test Set see Feb 1927

355 Transformer Test Set (E) Nov 1926 see June 1930

356 Quartz-Plate Holder (F) Bull 932 1939

**358 Wave Meter (E,F,G) July 1926 (unsigned)**

359 Variable-Ratio Transformer (E,F,G)

360 175 & 180 KC Test Oscillators\* Bltn 932 June 1929, Sept 1929 C.T.Burke

**361-B Vacuum-Tube Bridge (E,F) see Feb 1928**

365 Plate-Supply Transformer (E) Bltn 930

366 Filter Choke (E)

367 Output Transformer (E) Oct 1927

**368 Variable Air Condenser (E,G)**

369 Impedance (inductor) (E)

371 Rheostat & Potentiometer (E,F,G)

373 Double Impedance Coupler (E) Oct 1927

374 Condenser (variable, air) (E)

375 Piezo-Electric Oscillator (E,F) (6/35)

**376 Quartz Plates (F,G) Bull 916 Oct 1920 (2/30 C.E.Worthen)**

377 Low-Frequency Oscillator Catalog E

**377-B Low-Frequency Oscillator (E,G) Oct 1929 L.B.Arguimbau (6/35)**

379 Radio-Frequency Chokes (E,F,G)

380 Decade Condenser Units (F) (for 219 Boxes)

383 Portable Capacity Bridge (E,F,G) Feb 1927

384 Portable R-F Oscillator & Inductors (E,F,G) Apr 1929

387-A Speaker Filter (E,F) Oct 1927

388 Vacuum Tube Reactivator April 1927 Lamson, Feb 1928 C.T.Burke

389-B Pierce Magnetostriction Oscillator (F)

390 Plate Supply & Amplifier Kit \* Cat 1928 (E1) Bltn 929

395 Raytheon “B” Eliminator & Amplifier Kit \* Cat 1928 See bulletin 929

**400 Plate Supply & Power Amplifier \* Cat 1928 (E1) Aug 1926**

**403 Standard-Signal Generator Nov 1928 Lewis Hull**

403-B Standard-Signal Generator (E,F) Mar 1930 C.T. Burke

403-C Standard-Signal Generator (F2)

404 Service Test Oscillator (F2) June 1929

**405 Power Supply Unit Aug 1926**

407 Synchronous Shutter (F2) Apr 1931 H.W.Lamson (P1 Shutter Wheel)

408 Oscillograph Camera (F2) Apr 1931 H.W.Lamson

409 Camera Shelf (F2)

410 Rheostats (E) July 1927

411 Synchronous Motor (E) May 1927 J.K.Clapp

413 Beat-Frequency Oscillator (E,F) Apr 1927

415 Laboratory Amplifier Mar 1927 Bltn 4250, 4251

418 Dummy Antenna (F3,G) See Aug 1930 (-G 11/37)

419 Rectifier-Type Wavemeter(F3) Nov 1931 E.Karplus

421 R.F. Reactance Meter (H) Apr 1934 H.H.Scott

423 Vacuum Tube Oscillator (F)

425 Thermo-Ammemeters Bltn 504 Nov 1923

**426-A Thermionic Voltmeter (E,G**) Sept 1928

427-F Alternating-Current Voltmeter (F)

429 Attenuation Box (F,G) (7/35)

433 Rheostat Jan 1942

**434-B Frequency Meter (F3,G) Nov 1931 -B (No -A?)R.F.Field (Wien Br)**

437 Adjustable Center Tap Resistor (E,F) Dec 1927

438 Socket (E) July 1927

439 Center Tap Resistor (E,F) July 1927

440-A Low-Voltage Transformer (E) July 1927

441 Push-Pull Amplifier (E) Oct 1927 C.T.Burke

443 Mutual-Conductance Meter (E) Sept 1928 (bridge)

444 Socket (H)

445 Plate Supply & Grid-Bias Supply (E) Sept 27

446 Voltage Divider (E) Dec 1927

449 Adjustable Attenuator Nov 1937

**452 Voltage Divider (F) Nov 1937 452-C**

456 Duplex Siphon Recorder Feb 1932 H.W.Lamson

**457 Modulation Meter (F2 p143, G) see Mar 1930?, Aug/Sept 1933**

458 5-Meter Wavemeter (E)

459-A Manual Recorder Dec 1931 H.S.Wilkins

467 Synchronous Driving Fork Nov 1927 H.W.Lamson

**471 Rheostats & Potentiometers (G)**

473 Synchronometer Nov 1927 H.W.Lamson

475 Frequency Monitor (J) Apr 1935 C.E.Worthen

**476 Quartz Bar (J)**

478 Cathode-Ray Oscllograph Tube (F3,G)

480 Relay Rack (F,G) Sept 1932

481 Polar Relay Feb 1929 C.R.Burke

483 Output Meter (F3,G) (-F 6/36)

484 Modulated Oscllator & Inductors (H) Oct 1932

486 Output Meter (F) July/Aug 1929 J.D.Crawford

487 Megohm Meter (J) Sep/Oct1936 F. Ireland

488 Alternating-Current Meters (F,G)

489-B Pierce Twin Magnetostriction Oscillator (F)

**492 Oxide Rectifier (F2,G)**

493 Vacuum Thermocouples (F3,G) Mar 1939 D.B.Sinclair

**496 Cathode Ray Oscillograph & Power Supply Unit (F3,G)**

**497 Tube Mounting (F3,G)**

**500 Resistors (F3,G)**

502 Dials (F2,G)

503 Dials (F2,G)

**505 Condensers (J) Jan 1933 A.E.Thiessen**

**506-A Bedell Sweep Circuit (F) May 1932 H.H.Scott**

507-A Non-Polar Relay Nov 1929

508 Oscillator (F3,J) (1/36, R.F.Field)

**509 Mica Condensers Apr 1935 509-U 0.2uF**

510 Decade Resistor Unit (F3,G)

511 Synchronous Clocks (F,G) see June 1930,

511-C Synchro-Clock Oct 1930 H.S.Wilkins

513 Beat-Frequency Oscillator (F,G) Apr 1931 C.T.Burke

514 Amplifier (F3,G) Oct 1931 C.T.Burke

516 Radio-Fequency Bridge (G) July 1932 C.T.Burke (-C 12/33)

519 Dial Lens (H) Jan 1933

520 Dial Lock (H) Jan 1933

521-A Edgerton Stroboscope Aug/Sept 1933

522 Dial Plate (G2)

523 Dial Plate (G2)

525 Resistor (power) (G2) Apr/May 1933

526 Rheostats (G2)

527 Rectified Filter (E,F,G)

528 Cathode-Ray Tube (G2) June/July 1933 J.D.Crawford (see Nov ’37)

529 Attenuation Box (F,G)

530 Band-Pass Filter (F3,G)

531 Power Supply (G) Apr/May 1933 Museum has manual

532 Station Frequency Meter (E) Apr 1931 C.T.Burke

533 Rheostat & Potentiometer (G) Feb 1933 (250w)

534 Band-Pass Filter (G)

535 Frequency Meter-Monitor (H) Jan 1933 Unsigned

536 Distortion-Factor Meter (F3,G) Nov 1931 W.N.Tuttle

537 Knobs (G)

539 Variable Air Condensor (F2) (H. Hyman has one, unboxed)

540 Filament Transformer (F)

541 Push-Pull Amplifier Transformers (E,F)

544 Megohm Meter \*(Megohm Br) June/July 1933 R.F.Field (-B 7/37)

545 Power Transformer \* May 1929 Bull 932

**546 Microvolter (G) June/July 1933 J.W.Horton** (-B 4/41 M.A.Gilman, **-C** ‘48)

547 Temperature Control Box (G) Nov 1929 unsigned

**548 Edgerton Stroboscope (G) Dec 1932 H.R.Lamson (Edgerton & Germeshausen)**

**549 Synchronous Motor Contactor (G) -B**

550 Mercury Lamp Renewal (G)

552 Volume Control (F2) June 1931 A.E.Thiessen

553 Volume Control (F2) June 1931 A.E.Thiessen

554 Voltage Divider (F) Feb 1929

556 Amateur-Band Condenser (F2) (variable, air)

557 Amateur-Band Condenser (F)

558 Wavemeter (E) July 1928

559 Noise Meter (G) Mar 1933 H.H.Scott (-B 11/35)

560 Crystal Holder (H) Sept 1932

561 Vacuum Tube Bridge (G) May 1932 W.N.Tuttle (-D 11/41)

565 transformer (G)

**566 Wavemeter (G) Sept. 1942 E.Karplus**

568 Variable Air Condenser (G) Oct/Nov 1938

**572 Microphone Hummer (G)**

573-A Resistance-Impedance Coupler \* Bull 932 1930

**574 Wavemeter (G) Oct 1931 unsigned**

575 Piezo-Electric Oscillator (G) see Nov 1930 (types 275 & 547

**576 Quartz Bar (F2) 1930**

577 Inductor (G)

**578-A Bridge Transformer April 1934, R.F.Field (10/35, 1/38)**

579 Tube Mounting (G) June/July 1933 J.D.Crawford

580 Power Supply Unit (G) June/July 1933

**581 Frequency Deviation Meter (G) Cat F Supp 1931 (1/32)**

**583 Power Output Meter (G) May 1932 J.D.Crawford**

585 Audio-Frequency Transformer (E,F2,G) July 1928

586 Output Level Indicator (F,G) Apr 1930 (6/35)

587 Speaker Filter (E) Apr 1929

588 Direct-Current Meter (G) see Oct 1930

590 Piezo-Electriuc Oscillator (F,G)

**591 Temperature Control Unit (F)**

**592 Multivibrators (F,G) see Oct 1932**

**593 Timing Unit (F,G)**

**594 Heat-Control Unit (G)**

595 Power Supply Unit (F,G)

597-A Tube Mounting (for CRT) June/July 1933

598 Fader (F) July/Aug 1929 H.W.Lamson

600 Standard-Signal Genertor (F3,G) Aug 1931 L.B.Arguimbau & J.D.Crawford

601 Standard-Signal Generator (F3) see Apr 1932 A.E.Theissen

**602 Decade Resistance Boxes Feb 1932**

603 Standard-Signal Generator (G) May 1932 C.T.Burke

604 Test-Signal Generator (G) Feb 1933 **604-P20 coil**

605-A Standard-Signal Generator (K1) June 1936 A.E.Theissen

605-B Standard-Signal Generator Nov 1937

607-S1 Std Gsignal Generator museum has manual

608-A Oscillator (1st R-C Osc)(K1) Apr 1939 H.H.Scott

610 Ratio-Arm Box (G)

611 Synchro Clock (J) 1922? see Oct 1930 H.S. Wilkins

612 Control Panel (G)

**613 Beat-Frequency Oscillator (G) May 1932 C.T.Burke (-B 6/34)**

614 Selective Amplifier (J)

615 Hetrodyne Frequency Meter (G)

616 Hetrodyne Frequency Meter (G) see Oct 1932

617 Interpolation Oscillator (G)

618 Harmonic Oscillator (G)

619 Hetrodyne Detector (G) Oct 1932

620 Hetrodyne Frequency Meter (M) Feb 1940 J.K.Clapp

621 Edgerton (Power) Stroboscope (J Sept 1933 unsigned (1/36 C.T.Burke)

624 Precision Wavemeter (G) 624P Inductors

625 Bridge (G) Apr/May 1933 R.F.Field

**626 Vacuum-Tube Voltmeter (F3,G) Nov. 1931 Lamson**

627 Jack-Top Insulator (G)

628 Insulator (G)

629 Lead-In Assembly (G)

630 Stand-off Insulator (G)

**631 Strobotac (J) Aug 1935 H.H.Scott (Wilkins, Edgerton & Germeshausen)**

**631-B Strobotac May 1939 C.E.W (Charles Worthen, ed)**

631-P1 Strobotron

632 Capacitance Br For Electrolytic Condensers June/July 1933 R.F.Field

**635 Electron Oscillograph (G) June/July 1933 J.D.Crawford**

**636 Wave Analyzer June/July 1933 L.B.Arguimbau**

637 Fluted Knobs (G) Aug/Sept 1933

638 Sockets (F2)

639 Variable Air Condenser (G)

641 Transformer (K) Dec 1939 L.E.Packard

642 Volume Control (G) May 1932 A.E.Theissen

644-A Thermocouple (K)

645 Laboratory Amplifier Apr 1930 A.E.Theissen

646 Logarithmic Resistor (J)

647 Socket (G)

648 Strobolux (M) May 1939 C.E.Worthen

649 Sockets (F2)

**650-A Impedance Bridge (H) Apr/May 1933 R.F.Field**

650-P1 Oscillator-Amplifier Apr 1946 H.W.Lamson

651 Camera Assembly (H) Nov//Dec 1934 H.W.Lamson

652 Volume Control 1931

**653 Volume Control (G) Feb 1933**

654 Voltage Divider May 1932

655-A Bedell Sweep Circuit (H) May 1934 H.H.Scott

656/657/658 Sockets (F2,G)

660 Universal Rack (J) Oct 1933

661 Unit Panel Equipment (G) Oct 1933

**663 Resistor (HF) Jan 1939 D.B.Sinclair**

664 Thermocouple May 1928 L.B.Arguimbau

666 Variable-Ratio Transformer (G)

667 Inductance Bridge (H) Mar 1934 R.F.Field (6/35)

668 Compensated Decade Resistor Units, Mar 1934 R.F.Field

669-A,R Compensated Slide Wires (H) Mar 1934

**670-F Compensated Decade Resistor (H) Mar 1934 R.F.Field**

671-A Schering Bridge (60 Hz) June 1938 H.W.Lamson

672 Power Supply (H) Sep/Oct 1934

673 Power Supply (H)

674 Plugs & Jacks (G)

675 Piezo-Electric Oscillator (J)

**676 Quartz & Mounting (J)**

677 Coil Forms Jan 1933 (5/36)

678 Jack & Plug Base (J)

679-A, B Inductor Mar 1934 M. Eastham & J.M.Clayton

680 Jack Base (G)

681 Frequency Deviation Meter (J) Jan 1940 J.K.Clapp

682 Frequency Deviation Meter (J)

683-A Oil Cell Sep/Oct 1934 R.F.Field (4/35)

684-A Modulated Oscillator Nov 1937

686-A Power-Level Indicator Oct 1937 A.E.Theissen

**687 Electron Oscilloscope & Bedell Sweep Ckt June 1934 (HHS & EK)**

687\_BM Cabinet Model, 687-BR Rack Model see 11/35 p.8

690-B Piezo-Electric Oscillator (H)

691 Temperature Control Unit (H)

692 Multivibrator (J)

693 Snychro Clock (H) K, 1939

694 Crystal Osc. (H)

695 Power Supply (H)

696 Ac Power Supply (H)

698 Duplex Multivibrator (last 1946)

699 Comparison Oscilloscope (K) Dec 1931 ? J.K.Clapp

700 Beat-Frequency Oscillator (M) Jan 1939 D.B.Sinclair

701 Direct Dial Drives Aug 1940

702/703 Friction Dial Drives Aug/Sep 1933

704 Precision Dial (G)

705 Friction Dial Drive (J) Feb 1935

706 Precision Dial(G) Jan 1933

707 Cathode-Ray Null Indicator Apr 1939 H.W.Lamson

710 Plain Dial (G) Direct Dial Drive (J)

712 Direct Dial Drive (H,J) Feb 1935

713 Beat-Frequency Oscillator (J) Jun 1935, (7/35) 1935 L.B Arguimbau

714 Amplifier (H) Sep 1935 L.B.Arguimbau

715 Direct-Current Amplifier (M) Feb 1939 J.K.Clapp

716-A Capacitance Bridge (J) Dec 1936 R.F.Field (-B 4/42)

716-B “ Apr 1942 R.F.Field

716-C Capacitance Br Apr 1947 R.F.Field & I.G.Easton

716-P2 Guard Circuit Mar 1940 R.F.Field

716-P4 Guard Circuit Aug 1952 I.G.Easton

716-CS1 Capacitance Br. 1Mc Feb 1952 I.G.Easton

717 Plain Dial (G)

720 Hetrodyne Frequency Meter (L,M) July/

Aug 1945 E. Karplus

721 Coil Comparator Aug/Sept 1937 W.N.Tuttle

722 Precision Capacitor (J) Jan 1936 Field?

722-D Feb 1937 C.E.Worthen

**722-N H-F version Oct/Nov 1938 D.B.Sinclair**

723 Vacuum-Tube Fork (M) Oct 1941 W.N.Tuttle

724 Precision Wavemeter (J) Mar 1936 A.G.Bosquet

725 Color Comparator (J) Aug 1935 C.T.Burke

**726 Vacuum-Tube Voltmeter (J) 5/37 W.N.Tuttle (7/38 D.B.Sinclair)**

727 Vacuum-Tube Voltmeter May 1942 W.N.Tuttle

728 Vacuum Tube Voltmater (battery) Dec 1944 A.G.Bosquet

729 Megohmmeter (M) Battery Operated Jul 1940 W.N.Tuttle

730 Transmission Measuring Set (J) Jan 1935 L.B.Arguimbau (6/35)

731 Modulation Monitor (J) Jan 1935 "

732 Disatortion & Noise Meter (J) Feb 1935 L.B.Arguimbau

733 Oscillator (J) Feb 1935 "

736 Wave Analyzer (M) Dec 1938 L.B.Arguimbau

738 Insert Terminal (G)

739 Logarithmic Condenser Aug/Sept 1938 A.G.Bosquet

740 Capacitance Bridge (M) (-B 6/38 L.E.Packard)

741-G Transformer Jul 1935 A.E.Theissen

747 Temperature Control Box (G)

755-A Condenser Aug 1939

**755-AS1 Susceptance Variation Circuit Sep/Oct 1940 R.F.Field**

756 Variable Air Condenser (G)

**757-A Ultra-High-Frequency Oscillator Aug 1941 A. Peterson**

**757-P1 Power Supply**

**758 Wavemeter (M) Aug 1940 E. Karplus**

**759 Sound-Level Meter (J) Dec 1937 L.E.Packard**

760 Sound Analyzer Feb 1939 H.H.Scott

761-A Vibration Meter Jun 1941 H.H.Scott

762 Vibration Analyzer (M)

769 Square-Wave Generator Dec 1939 L.B.Arguimbau

770 Cathode Ray Oscilloscope see Theissen p. 40 Sinclair Not marketed

774 Coaxial Terminals Apr 1941 D.B.Sinclair

775-A Frequency-Limit Monitor Feb 1938 D.B.Sinclair

776 Patch Cord

777-Q1,Q2,Q4 Adaptor

783 Power Output Meter (M) Jan 1942

804 Standard-Signal Generator Nov 1939 (-B 2/41 M.T.Smith)

**805 Standard-Signal Generator Apr 1943 C.C.Cady**

813 Oscillator May 1935 H.W.Lamson

814 Amplifier and 814-P1 filter Jan 1938

**815 Tuning Fork May 1936**

816 Vacuum Tube Prec. Fork (last 1948)

821 Twin T Impedance-Measuring Network Jan 1941 D.B.Sinclair

829 Decade Attenuator Unit (M) Dec 1949 H.W.Lamson

**830 Filter (J) 830-R**

834 Electronic Frequency Meter Dec1935 J.K.Clapp

838 Test Leads, Clips etc Jul 1952 H.C.Littlejohn

846**,847**,848 **Variable Air Capacitors** (last 1948)

857 U-H-F-Oscillator Nov 1944 E.Karplus

869 Pulse Generator (M) Jan/Feb 1944 H.H.Scott & C.A.Cady

**874 Coaxial Elements Jan 1950 W.R.Thurston (EK)**

874-LB Slotted Line Nov 1950 R.A.Soderman & W.M.Hague

874-LBA Slotted Line Dec 1954 R.A.Soderman

874-MB Slotted-Line Motor Drive Apr 1955 R.A.Soderman

874-MR Mixer May 1950 E. Karplus

880-DCA, G6,G10 Attenuators (last 1977)

900 Coaxial Equipment Nov 1963 J. Zorzy

901/902/903/904/905/906 Dials (M)

907/908 Gear Drives (M) May 1955

913-A Beat-Frequency Oscillator Jul 1942 H.H.Scott

916-A Radio-Frequency Bridge (M) Aug 1942 D.B.Sinclair

916-AL Radio-Frequency Br. Mar 1949 R.A.Soderman

**920 Switch (last 1948)**

938 Binding Posts (M) Jun/Jul 1952 H.C.Littlejohn

940 Decade Inductor Unit July 1949 H.W.Lamson

941 Toroidal Transformer (M) Sep 1950 H.W.Lamson

942 Output Transformer (O) Nov 1951 H.W.Lamson

970 Dial

**971-977 Potentiometers Jan 1955 H.M.Wilson 971, 973**

980 Decade Capacitor Units

**1000-**P3,4,5,**P6** Voltage Divider, Dummy Antenna, Transformer & **Crystal Diode**

1001 Standard-Signal Gneerator (N) Sept 1949 A.G.Bosquet

**1003 Standard-Signal Generator Jul/Aug 1967 R.Altenbach**

1021 UHF Standard-Signal Generator Mar 1950 E.Karplus & E.E Gross

1022-A F-M Standard-Signal Generator Nov 1949 D.B.Sinclair

1023 Amplitude Modulator (M) Nov 1949 D.B.Sinclair

**1025-A Std Sweep Freq Generator Jan 1963 W.F.Byers**

1026 Standard-Signal Generator Mar 1967 G.P.McCouch

1061 Frequency Synthesizer

1062 Frequency Synthesizer *GR Today* Aut 1973

1065 Frequency Synthesizer

1100 Frequencty Standard(L to P)

1101-A,B Piezo Electric Oacillator

1102-A Multivibrator & Power Supply

1103 Synchronometer

1105 Freq Measuring Equipment (M) Jun 1958 F.D.Lewis

1106 Frequency Transfer Unit (M)

1107 Interpolation Oscillator (M)

1108 Coupling Panel (M)

1109 Comparison Oscilloscope (M)

1110 Interpolating Frequency Std (M)

1112 Standard Frequency Multiplier (P) Jul 1958 F.D.Lewis

1113-A Standard Frequency Oscillator (Q)Apr 1961 R.W.Frank, F.D.Lewis & H.P.Stratameyer

1114 Frequency Divider

**1115-B Std-Frequency Oscillator Jun 1964 H.P.Stratameyer**

1116 Emergency Power Supply (P) -B 4-5/63

1118 Rubidium Frequency Standard See Freq. Std. :Frank, Stratemeyer, Riley, Never sold

1120 Frequency Standard (Q) Apr 1961 Frank, Lewis & Stratameyer

1121-A Frequency & Time Standard Feb/Mar 1965

1122 1122 Military Rubidiun Physics package With Collins, 300 produced

**1123-A Digital Synchrometer Aug 1964 Feb/Mar 1965 D.O.Fisher**

1124 Receiver Mar 1968 D.O.Fisher

1125 Parallel Storage UniT Mar 1968 D.O.Fisher

1126 Space Rb Clock for Rockwell GPS Frank, Stratemeyer, Riley etc.

1130 Digital Time & Freq Meter May 1961 R.W.Frank & H.T.McAleer

1131-P1 to P5 Counting Units

1132-A Data Printer

1133 Frequency Converter Dec 1962 H.T.McAleer

1134 Analog-to-Digital Converter Oct 1961 H.P.Stratameyer

1136 Analog-to-Digital Converter Dec 1963 H.P.Stratameyer

1137 Printer

1140 Wavemeter (M) Oct. 1945 E. Karplus

1141 Audio-Frequency Meter Feb 1948 M. Gilman Wien Br like 434

1142 Frequency Meter & Discriminator Jan/Feb 1961 C.G.Chitorous (MCH)

1143-A Frequency Measuring Assembly Sep 1965

1144-A 100Mc Digital Frequency Meter Sep 1965

1150 Digital Frequency Meter Apr 1962 J.K.Skilling & R.W.Frank

1151 Digital Time & Freq Meter Jun 1963 R.W.Frank

1153-A Digital Frequency Meter Sep 1965 S.Bentzen & D.S.Nixon

1156-A Decade Scaller (10:1) Sept 1965 D.S.Nixon

1157-B Scaler (100:1) Jul/Aug 1968 (Skilling & Sargent)

1158-9600 Tektronix Probe

1159 Recipromatic Counter Jun/Jul 1968 N.L.Westlake & S. Bentzen

1160-RDI-1 Digit Insertion Unit May 1965 G.H.Lohrer

1161-A Coherent Decade Freq Synthesizer Sept 1965 A. Noyes

1162-A Coherent Decade Freq Synthesizer Sept 1965 A. Noyes

1163-A Coherent Decade Freq Synthesizer Nov/Dec 1965 A. Noyes

1164-A Coherent Decade Freq Synthesizer Sep 1966 W.F.Byers

1165-A Coherent Decade Freq Synthesizer Nov/Dec 1965

1168-A Coherent Decade Freq Synthesizer Sep 1966

1169 Resolution Kit

1170 F-M Frequency Monitor (O)

1176 Frequency Meter (O)

1181-A A-M Frequency Deviation Meter

1181-AT Color Subcarrier Monitor (O) Apr 1954 W.R.Saylor (-B 4/68)

1183 T-A Television Trasmitter Monitor Apr 1958

1184 TV Transmitter Monitor (O) Sept 1956 C.A.Cady

**1190 Quartz Bar**

1191 Counter Jan/Feb 1969 (-Z 11/68 H.T.McAleer)

1192 Counter Jul/Aug 1969 S.Bentzen

1192-B Counter Oct-Dec 1970

1201 Unit Regulated Power Supply Aug/Sep 1958

1202 Unit Vibrator Supply (O) Feb 1955 A.G.Bosquet

1203 Unit Power Supply Jul 1951 (-B 7/57)

1204 Unit Variable Power Supply Jul 1951

1205-A Unitb Power Supply Nov 1948 Unsigned

1205-B Adjustable Regulated Power Supply Mar 1959 (M.C.Holtje)

1206-A Unit Amplifier Nov 1948 unsigned

1206-B Unit Amplifier Nov 1953 H.P.Hall (DBS, APGP)

1207-A Unit Oscillator Nov 1948 Unsigned LC Osc

1208 Unit Oscillator May 1950 E.Karplus (-B 4/55,-C 6/65)

1209 Unit Oscillator May 1950 E.Karplus " "

1210-A Unit Oscillator

1210-B Unit R-C Oscillator May 1955 Bosquet, Peterson & Sinclair

1210-C Unit R-C Oscillator Apr 1958

**1211 Unit Oscillator Sep 1053 A.G/Bosquet (-C 6/65)**

1212 Unit Null Detector Feb 1953 R.B.Richmond

1212-P1 High-Pass Filter Feb 1953

1212-P2 One-Megacycle Filter Jan 1956 H.P.Hall

1212-P3 RF Mixer Dec 1963 J. Zorzy

1213-A Unit Crystal Oscillator Feb 1952 R.B.Richmond (-C 6/56 RWF & FDL)

1213-D Unit Time/Freq Calibrator Oct 1959 R.W.Frank & H.P.Stratameyer

1214 Unit Oscillator Jul 1951 (-E 2/59)

1215 Unit Oscillator Jan 1953 A.G.Bosquet (-B 4/55, -C 6/65)

1216 Unit IF Amplifier May 1954 R.A.Soderman

1217-A Unit Pulser Mar 1954 R.W.Frank (-B 2/62, -C 12/64)

1218 Unit Oscillator Feb 1955 E.Karplus (-B 7/65 R.W.Hartley)

1219 Unit Pulse Amplifier Jul 1955 R.W.Frank

1220 Unit Klystron Oscillator Mar 1954 B. O'Brien & R.A.Soderman

**1230 D-C Amplifier & Electrometer Mar 1956 A.G.Bosquet**

1231-B Amplifier and Null Detector Feb 1948 W.R.Thurston

**1232 Tuned Amplifier and Null Detector July 1961 A.E.Sanderson**

1242-P1 RF Mixer Dec 1963 J. Zorzy

1232-P2 Preamp Feb 1967 H.P. Hall

1233 Power Amplifier Jan 1951 W.F.Byers

1234 Standing-Wave Meter Feb 1968 M. Khazam

1235-DNT Hetrodyne Detector

1236-A I-F Amplifier Jul/Aug 1967 M. Khazam

1237 UHF/VHF Preamplifier

1238 Detector (D.Abenaim)

1240-A Bridge Oscillator/Detector Jun 1964

1241 Hetrodyne Detectors

1260-A Variac Rectifier Mar 1946 E.E.Gross

1261-A Power Supply, (O) Mar 1946 E.E.Gross

1262 Power Supply (O) Mar 1952 E.E.Gross (see 1551-A)

**1263-A Amplitude-Regulating Power Supply Apr 1955 W.F.Byers (-B 7/61)**

1264-A Modulating Power Supply Mar 1961 G.P.McCouch

1265-A Adjustable DC Power Supply May 1962 H.P.Hall

1266-A AC Power Source May 1962 G. Smiley

1267 Unit Power Supply Aug 1963 M.C.Holtje

1268 Automatic Battery Charger Apr/May 1963

1269 Unit Regulated Power Supply Aug 1963 M.C.Holtje

1300 Beat-Frequency Oscillator

1301-A Low-Distortion Oscillator Jun 1949 F.D.Lewis

1302 Oscillator Nov 1947 C.C. Cady Wien Br.

1303 Two-Signal Audio Oscillator Aug 1950 A. Peterson

1304 Beat-Frequency Oscillator Jan 1952 (-B 6/54 CAW)

1305 Low-Frequency Oscillator Aug/Sep 1959 G. Smiley

1307 Transistor Oscillator Aug 1954 A. Peterson

1308 Audio Oscilator & Power Amp. Jan 1964 R.G.Fulks

1309 Low-Distortion Oscillator Mar 1944 R.E.Owen

**1310-A Oscillator Aug 1965 R.E.Owen**

1311-A Audio Oscillator Aug/Sep 1962 R.G.Fulks

1312 Decade Oscillator Jan 1968 R.E.Owen

1313-A Oscillator Feb 1967 R.E.Owen

1316 Oscillator (Cat 78)

1330 Bridge Oscillator Dec 1950 A.G.Bosquet

1340 Pulser Nov/Dec 1968 J.K Skilling

1346 Audio-Frequency Microvolter Aug/Sep 1968 R.E.Owen

1350-A,AQ1 Generator Recorder Assembly

1360-A Microwave Oscillator Jan/Feb 1962 Per Bergstad

1361-A UHF Oscillator Mar 1961 G.P.McCouch

1362 UHF Oscillator Jun/Jul 1968 G.P.McCouch

1363 VHF Oscillator Jun/Jul 1968 G.P.McCouch

1381 Random-Noise Generator Jan 1968 J.J.Faran Jr.

1382 Random-Noise Generator Jan 1968 J.J.Faran Jr.

1383 Random-Noise Generator (J.J.Faran Jr.)

1390-A Random-Noise Generator Dec 1951 A.P.G. Peterson

1391 Pulse, Sweep & Time Generator May 1956 R.W.Frank (-B2/59)

1392 Time-Delay Gererator Dec 1958 R.W.Frank

1394-A High-Rate Pulse Generator Jul 1966 J.K.Skilling

1395 Modular Pulse Generator May 1965 G.R.Partridge

1396-A Tone-Burst Geberator May 1964, -B 10/68 J.K.Skilling

1397-A Pulse Amplifier

1398-A, P1 Pulse Generator & DC compensator

1399 Digital Divider, Period & Delay Generator Jan/Feb 1969 R.W.Frank

**1401 Capacitor**

**1403 Standard Air Capacitor Aug/Sept 1959 I.G.Easton**

1404 Standard Capacitor Aug 1963 J.F.Hersh (-C 8/66/)

**1405 Coaxial Capacitance Standards May 1968 R.Orr & J.Zorzy**

1406 Coaxial Capacitance Standards Sep 1967 R.Orr

**1407 Coaxial Capacitance Standards May 1968 R.Orr & J.Zorzy -D**

1408 Reference Standard Capacitors Oct-Dec 1970 D.Abenaim & J.F.Hersh

**1408-B " oil bath version
1409 Standard Capacitors Jul 1957 P.K.McElroy**

**1412-BC Decade Cpacitor Aug 1960 R.W.Orr**

1413 Precision Decade Capacitor Mar/Jun 1969 unsigned (R.W.Orr)

**1417 Four-Terminal Capaitance Standard Catalog ‘78 H.P.Hall**

**1419 Decade Capacitor Jul 1956 (-K 11/57)**

**1420 Variable Air Capacitor Jul 1956 H.M.Wilson**

**1421 Variable Air Capacitors Nov 1958**

**1422 Precision Capacitors Aug 1961 P.K.McElroy**

**1423-A Precision Decade Capacitor Jun 1961 I.G.Easton**

**1424-A Standard Polystyrene Decade Capacitor Jun 1961 P.K.McElroy (10uF)**

1425-A Standard Polystyrene Decade Capacitor Jul 1965 P.K.McElroy (100uF)

1426 Four-Terminal Capacitance Standard Jan 1968 H.P.Hall

1427 Variable Air Capacitor (M)

1428 Variable Air Capacitor (M)

1429-A Fuel Gage Tester (MD-2) Jan 1960 Unsigned (designed by PKM)

**1432 Decade Resistors June 1951 I.G.Easton (-X Sept 1961)**

**1433 Decade Resistors Nov/Dec 1968 H.P.Hall**

1434 Decade Resistors Oct 1965 H.P.Hall

1435 Programmable Decade Resistor Jul/Sep 1970 (Peter Gray IV)

1436 Lever Switch Decade Resistor W.J.Bastanier

**1440 Standard Resistors Oct 1962 W.J.Bastanier**

1441 " " " "

1442 Coaxial Resistance Standards Apr 1969 R.W.Orr

**1444-A,-B Reference Resistance Standard Mar/Jun 1969 W.J.Bastanier**

1450 Decade Attenuators Dec 1949 H.W.Lamson

1452 Programmable Attenuator Nov/Dec 1970Unsigned (G.H.Lohrer)

1454 Decade Voltage Divider Aug 1955 I.G.Easton

**1455 Decade Voltage Dividers Apr 1967 H.P.Hall**

**1481 Standard Inductors Dec 1950 H.W.Lamson -B**

**1482 Standard Inductors Nov 1952 H.W.Lamson (7/57)**

1490 Decade Inductor Jul 1949 H.W.Lamson (5/58)

**1491 Decade Inductor Mar/Apr 1969 Unsigned**

**1493 Precision Decade Transformer Apr 1967 G.X.Smiley-**

1500 Counting-Rate Meter Jul/Aug 1947 (-B 9/50 AGB)

1501 Light Meter (M) Oct 1950

1510-A Digital-to-Graphic Recording Assem. Sept 1965 (1136 & 1521)

1521-A Graphic Level Recorder Jun 1959 M.C.Holtje & M.J.Fitzmorris

1522 Preamplifier etc

1523 Graphic Level Recorder (Cat 78)

1525-A Data Recorder Oct 1966 A.P.G.Peterson

1530 Microflash (M) (5/45)

**1531 Strobotac Sept 1960 M.J. Fitzmorris (MCH) -AB**

1532 Strobolume (M)

1533 High Speed Motion Picture Camera

1534 Polariscope Jun 1950 G. Smiley

1535 Contactor

1536 Photoelectric Pickoff Oct 1962

1537-A Photoelectric Pickoff Apr 1966

1538-A Strobotac Electronic Stroboscope Apr 1966 M.C.Holtje

**1539 Stroboslave Apr 1966 M.C.Holtje**

1540 Strobolume Sep/Oct 1969 C.E.Miller

1541 Multiflash Generator Jul/Sep 1970 (C.E.Miller & W.F.Rogers)

1542 Stroboscope Oct/Dec 1970 C.E.Miller (-B Sum '72)

1543 " *GR Today* Summ 1972

1544 " "

1545 GR France Strobe

1547 GR France Strobe

1550 Octave-Band Analyzer (M)

1551 Sound-Level Meter Mar 1952 E.E.Gross (6/57,-B 11/58,-C 7/65)

**1552 Sound-Level Calibrator Dec 1949 E.E.Gross**

1553 Vibration Meter Nov 1961 E.E.Gross

**1554 Sound & Vibration Analyzer Dec 1959 J.J.Faran Jr.**

**1555 Sound Survey Meter (M) Apr 1952 A.P.G. Peterson**

1556 Impact Noise Analyzer Feb 1956 A.P.G.Peterson 1557 1557 Vibration Calibrator

1558 Octave-Band Noise Analyzer Oct 1962 W.R.Kundert (-BP 11/66)

1559 Microphone Reciprocity Calibrator Apr/May 1963 B.A.Bonk

1560 Microphone, Case, Tripod etc (P)

**1561 Precision Sound-Level Meter Apr 1968 C.A.Woodward & E.E.Gross**

**1562-A Sound-Level Calibrator May/Jun 1967 B.A.Bonk**

1563 Sound Level Meter

1564 Sound & Vibration Analyzer Sep/Oct 1063 W.R.Kundert

**1565 Sound Level Meter**

1565-Z Audio Calibration Kit Apr 1968

1566 Multichannel Amplifier (Cat 78)

1567 Sound-Level Calibrator

1568-A Wave Analyzer Sep 1966 W.R.Kundert

1569 Automatic Level Regulator Apr 1968 W.R.Kundert & C.A.Woodward

1570 Automatic Voltage Regulator Jul 1954 M.C.Holtje

1571-A Line-Voltage Regulator Jan 1956 C.E.Miller

1581-A Line-Voltage Regulator Jan 1966 C.E.Miller

1582-A Line-Voltage Regulator Jan 1966 C.E.Miller

1583 Three-Phase Line Voltage Reg. Oct 1967

1590 Remote Control Sep 1961 M.C.Holtje & C.A.Tashijan

1591-A Automatic Line-Voltage Reg. Oct 1967 C. Chitouras

1592-A Automatic Line-Voltage Reg. Oct 1967 C. Chitouras

1601 VHF Bridge P Feb 1950 R.A.Soderman

1602 UHF Admittance Meter MP May 1950 W.R.Thurston

**1603 Z-Y Bridge Jul 1955 I.G.Easton**

1604-A Comparison Bridge Feb 1954 M.C.Holtje (-B 2/54)

1605 Impedance Comparator P Apr 1954 M.C.Holtje & H.P.Hall (Easton

**1606**-A R-F Bridge (RAS) P Jun 1955 R.A.Soderman **(-B 9/67)**

1607 Transfer-Function and Immittance Meter Mar 1958 W.R.Thurston & R.A.Soderman

**1608 Impedance Bridge Mar 1962 H.P.Hall**

1609 Precision UHF Bridge Nov-Dec 1967 J.F. Gilmore

1610-A Capacitance Measurement Assembly Dec 1953 (IGE., -AK 2/57

1611-A Capacitance Test Bridge July 1948 I.G.Easton (-B 2/58)

**1612-A R-F Capacitance Meter Nov 1948 W.F.Byers**

1612-AL "The Type 1612-AL Capacitance Meter" Feb 1951 P.K. McElroy

1613-A Capacitance Bridge (P-582) Feb 1958 H.P.Hall (P.K.McElroy)

1614 Capacitance Bridge Feb 1946 H.R.Lamson

**1615-A Capacitance Bridge April 1962 J.F.Hersh**

1616 Precision Capacitance Bridge Oct/Dec 1970 D. Abenaim & J.F.Hersh

**1617-A Capacitance Bridge Jun 1966 H.P.Hall**

1620 Cap. Meas. Ass. (1615,1232,1311) See 1615

1621 Precision Cap. Meas. Ass. (1616,1238,1316) See 1616

1630 Induct. Meas. Ass. (1633,1265,1308) see 1633

1631 Inductance Bridge Feb 1946 H.R.Lamson see 1614

1632A Inductance Bridge Nov 1959 J.F.Hersh

1633 Incremental Inductance Bridge May 1962 H.P.Hall & R.G.Fulks

1633-P1 Range Extension Unit

1640 Slotted Line Recorder Jan 1965 A.E.Sanderson

1641 Sweep Freq. Reflectometer Mar/Apr 1969 MacKenzie, Gilmore & Khazam

1644 Megohm Bridge July 1964 H.P.Hall

**1650-A Impedance Bridge Mar 1959 H.P.Hall**

1650-B Universal Impedance Bridge May 1968 C.D. Havener

1651 Bolometer Bridge Jul 1950 R.A.Soderman

1652 Resistance Limit Bridge Jan 1952 W.M.Hague Jr.

1654 Impedance Comparator May/Jun 1969 R. K. Leong

1655 (Semi-Auto IMP. Br. (CDH) never sold)

1656 Impedance Bridge Mar/Jun 1970 (H.P.Hall, unsigned)

**1657 Digibridge Cat ’78 1976** (HPH, M. Gipe, R.Sullivan,)

1658 " Cat ‘78 1977 "

1659 RLC Digibridge

1660 Precision Inductance Meas. Assem. (1632,1311,1232)

1661-A Vacuum Tube Bridge Feb 1959, A.G.Bosquet (-B 8/61)

1662 Resistance Comparator Nov/Dec 1969 R.K.Leong

**1666 Resistance Bridge 1986 RLC Catalog *GR Today* Autumn 1972 (HPH)**

1670 Magnetic Test Set Aug 1948 H.W.Lamson

1671 Coaxial Cable Attenuation Meas. Kit Dec 1957 (WRT)

1672 Digital Control Unit (RGF) bridge part of 1680

1673 Automatic Capacitance Bridge (RGF) bridge part of 1680

1674 Auto. Digital Comparator June/July 1968 (RKL) (part of 1681)

1680 Automatic Capacitance Bridge Assem. Apr 1965 R.G.Fulks

1681 Auto. Impedance Comparator System Jun/Jul 1968 R.K. Leong

1682 Auto. Capacitance Bridge (1Mc) Nov/Dec 1969 R.F. Sette

1683 Automatic RLC Bridge Mar/Jun 1970 T.J.Coughlin

1684 Digital Impedance Meter Cat 74 (TJC)

1685 Digital Impedance Meter 1973 (HPH)

1686 Digital Capacitance Meter (HPH)

1687-A 1 MHz Digibridge Catalog ’78 (WFB, HPH & others)

1687-B 1 MHz Digibridge 1986 RLC Catalog

**1688 Precision LC Digibridge Ref? (RCS, HPH & others)**

1689 Precision Digibridge 1986 RLC Catalog (RCS, HPH & others)

1689-9604 Calibration Kit 1986 RLC Catalog

1690 Dielectric Sample Holder

1691 Capacitance Test Fixture Oct 1955 I.G.Easton

1692 RLC Digibridge

1693 RLC Digibridge

1700 Variac Speed Control Apr 1949 W.N.Tuttle (-B 5/51)

1701 Variac Speed Control Oct 1949

1702 Variac Speed Control Dec 1953 W.N.Tuttle

1703 Variac Speed Control "

1704 Variac Speed Control Dec 1953

1705 Variac Speed Control "

1710 Precision RF Network Analyzer *GR Today* Summ 1972 C.E.Gorss

1730 Linear Circuit Tester  *GR Today M*ar 1974 (R.K.Leong)

1731 Socket Adaptor Sets (for 1730)

1732 Digital Circuit Tester

1735 Dig IC Tester

1740 Linear IC Tester

1742 Digital IC Tester

1744 Digital IC Tester

1750 Sweep Drive Apr 1955 E.Karplus

1770-A Scanner System Nov/Dec 1966 H.T.McAleer & R.F.Sette

1772 Switch Assemblies

1781-A Digital Limit Comparator Nov/Dec 1966

1782 Analog Limit Comparator May/Jun 1969 R.K.Leong

1783 Digital Limit Comparator Aug/Sep 1968

1784 Multiple Limit Comparator

1785 Printer

1790 Logic-Circuit Tester Jan/Feb 1970 (Cvitkovich, Fichtenbaum etc)

1791 Card-Punch Coupler

1792 Logic-Circuit Analyzer *GR Today* Spring 1973

1793 Logoic Circuit Tester

1795 Logic Test System

1796 Digital/Analog Test System

1797 Programming Station

1799 Digital/Analog Test System

1800 Vacuum-Tube Voltmeter M Sept 1946 C.A.Woorward (& DBS?) ?

1802 Crystal Voltmeter M Oct 1946 A.P.G. Peterson

1803 Vacuum-Tube Voltmeter M Apr 1950 C.A.Woodward(-B 3/55)

1805

**1806 Electronic Voltmeter** Jul 1963 J.J.Faran Jr.

1807 D-C Microvoltmeter/Nanoammeter Aug/Sep 1968 K.G.Balekdjian

1808 AC Millivoltmeter Nov/Dec 1969 K.G.Balekdjian

1820 Digital Voltmeter May 1968 K.G.Balekdjian

1822 Digital Voltmeter Calibrator Mar/Apr 1969 R.P.Anderson

1840 Power output Meter Feb 1962 G.Smiley

1861-A Megohmmeter Nov/Dec 1945 W.N.Tuttle

1862-A Megohmmeter Nov 1951 A.G.Bosquet

1862-B Megohmmeter Dec 1954 A.G.Bosquet

1862-C Megohmmeter Jul 1963 H.P.Hall

1863-A Megohmmeter Mar/Apr 1969 H.P.Hall (W.Blake)

**1864-A Megohmmeter Mar/Apr 1969 H.P.Hall (W.Blake)**

1865 Megohmmeter designed by QuadTech

1900-A Wave Analyzer Apr 1964 A.P.G.Peterson

1909 1/3 Octave Real-Time Analyzer a 1972 G. Partridge & R.W. Frank

1910 Recording Wave Analyzer Apr 1964 A.P.G.Peterson

1911-A Recording Sound & Vibration Ana. Sep 1964 M.W.Basch

1912 Third-OctaveRecording Analyzer (U)

1913 Recording Wave Analyzer

1920 See P-1920 below

1921 Real-Time Analyzer May/Jun 1969 Kundert, LaPointe & Partridge

1923 Vibration Control System GR Today Sum 1972 Time Data Div.

1925 Multifilter Oct 1968 W.R.Kundert

1926 Multichannel RMS Detector

**1931 Modulation Meter (M) -B 4/58**

1932-A Distortion Meter Jun 1949 F.D.Lewis

1933 Precision Sound Level Meter & Analyzer Sys. See *GR Today* Mar 1974

1934 Noise Monitor

1935 Cassette Data Recorder

1937 Audiometer *GR Today*  Mar 1974

1938 Sound Shelter Cat 73

1939 Audiometric Examination RoomR Cat 73

1940 Power Supply

1944 Sound Exposure Meter *GR Today* Sum 1972

1945 Community Noise Analyzer

1951 Filter (O) Feb 1953

1952 Universal Filter Apr 1968 W.R.Kundert

1954 Noise Dosimeter

1961 Electret Condenser Microphone (1")

1962 Electret Condenser Microphone (1/2")

1963 Electret Condenser Microphone (1/4")

1971 Ceramic Microphone (1")

1972 1/2" Ceramic Microphone & Adaptor

1981 Precision Sound-Level Meter/Sets/System

1982 Precision Sound-Level Meter & Analyzer System

1983 Sound-Lvevl Meter

1984 Sound Level Meter

1985 DC Recorder

1986 Carrying Case

1987 MiniCal Sound Level Calibrator

1988 Random Mike etc

1995 Real Time Analyzer

2200 Multi-Station Test System (Cat 73)

2210-A Analog Circuit System *GR Today*, Spring 1973

2220 Bug Hound (M. Fichtenbaum)

2230 Passive Test System (W.Kabele, others)

2240 Resistance Anodize Trim System (RATS) *GR Today* Sum 1972 (M.Holtje)

2250 Functional Laser Trim System *GR Today*  Mar 1974

2260 Automatic R-F Network Analyzer Sys. *GR Today* Spr 1973

2270 In-Circuit/Functional Test System Cat 78

2275 Board Test Workstation

2280

2283 1992

2284 1992

2290-9259 Automatic Component-Test System Cat 73

2295-8158 Bias Supply May/June 1969

2295-9349 Resistance Anadodize Trimmer “MimiRATS” Cat 73

2512 Spectrum Analyzer

2515 FFT Analyzer

2610 Universal Field Tester (from SPD. Pheonix)

2620 Field Maintenance Tester

2750 Combinational Tester

2995-0158 Bias Supply

GR16 STI Chip Tester

GR18 STI Chip Tester

GR1000 Tester Geneva family

GR9000 1991 Geneva, VXIbus Tester

(More New Test Systems)

FDS 2000 GR & Ford

Listed By Letter:

**BC-14A Radio Receiving Set, USA Signal Corp**

BC 15A Radio Transmitter, 1918

**S.C.R 112 Battalion<->Regiment Set Box 1919 Have photo**

C.A.G. Wavemeter “Made for Nvy Department, BU OF S.E.

C-10 Secondary Frequency Standard Jan/Feb 1934

C-21-H Primary Fequency Standard Jan/Feb 1934, Jun 1935

CAP-22 Three-Wire Cord Apr 1962

CGR 44 Portable Signal Gen for USCG museum has manual

DNT Detector Assemblies May 1954 R.A.Soderman

DNT-2 " Mar 1955 R.A.Soderman

DNT-5,-6,-7 " Jun 1965

FR-36/U Het. Freq. Meter & Cal

GRX-306 Kelvin Bridge, used in lab. H. P.Hall

GRX-308 Transformer Divider, 10 steps to check 1493 dividers, H. P. Hall

GRX-309 Hi Meg R Stds H. P. Hall

GRX-310 Exp Null Detector (pre 1232)

GRX-311 Two-Stage Transformer to measure ac ratio (1493) H. P. Hall

GRX-312 High Capacitance Bridge H.P. Hall

GRX-401 Standard Resistor non-catalog W. Bastanier

G-S 1701 Audometer

G-S 1703 Audiometer

G-S 1720 Odoadmittance Meter

GTS-1 TFT-LCD Panel Tester “Looking Glass” 1991-3 (Hall, Pillote, Albertini etc)

IND-0300/1801 Numerik Indicators Apr 1962

LN RF Oscillator for Navy

LR Interpolator (Freq Meter for Navy)

M-2, M-5 Variac Autotransformer Jul 1954 G. Smiley

M-10 Variac Autotransformer Nov 1954 G. Smiley

M-2 Variac Autotransformer Oct 1954 G. Smiley

MD-1 Fuel Gage Tester see P-579

MD-2 Fuel Gage Tester see 1429-A military designation TTU-68/E

P-174-A Power Level Indicator 1929 Museum has manual

P-199-E Timing Amplifier for Freq. Std.

P-205 Timing Equipment for USCG “ “ “

**P-259 Voltmeter** (donated by Charlie Wenzelberger) “ “ “

P-261 Portable Calibrator for USCG

P-330 Std Signal Generator Museum has manual

P-349 Signal Generator for USCG Museum has manual

P-472 Inductance Bridge

**P-484 Broadcast Dual Mixer**

P-507 Microflash Sept 1941

P-521 Receiver, made for National Defense Research Committee GR has Man, HPH has photo

P-531 Receiver 1000-3000 Mc Has USN tag. Have photo

P-540 Receiver , P1,P2 &P3 Man Mar 1947 D.B.Sinclair Have Manual

P-579 Field Variable Capacitance Tester Sept 1955 P.K.McElroy (MD-1 Fuel gage tester)

P-582 Capacitance Bridge (or 1613) Feb 1958 H.P.Hall (& P.K.McElroy) TTU-24/E

P-583 Emergency Power Supply Nov 1957 G.Partridge, R.W.Frank

P-1920 Real-Time Analyzer “Bat Machine” 1965 R.W.Frank, G Partridge

V-2 Variac Autotransformer May 1952 G.Smiley

V-5 Variac Autotransformer May 1946 G.Smiley

V-10 Variac Autotransformer Jul/Aug 1946 G.Smiley

U-2 Variac Autotransformer Cat ‘73 & Cat ‘78

**W-5 Variac Autotransformer Dec 1955**

W-8 Variac Autotransformer Apr/May 1963

W-20 Variac Autotransformer Aug/Sep 1958

W-50 Variac Autotransformer Apr 1957

X-213A Circular Sweep

**X 274 Comparison Bridge**

No Type Number:

Rectangular Potentiometer, made for Harvard Engineering School (ref?)

Capacitance Unbalance Br. For Cable Testing GR Exp May 1929

Universal Gain-Loss Set see June 1930 p. 9

Impedance Comparator **in room** Feb 1936 J.W.Horton (for human body)

**2-Section Type Filters (in room)**

**Vacuum Tube Voltmeter in room (sloped panel)**

Model 600M Wrapping Station Cat 73

Made by or with Other Companies:

Acme Appratus Co. Transformers Mar 1921, Bull 113&119 May 1921

Raytheon Rectifier Tube Bltn 924

P-11, Type 1002A Western Electric Head Phones Bull 901 Jan 1920

G-S 1701 Audiometer Oct/Dec 1970 R.L.Grason

G-S 1703 Recording Audiometer

G-S 1720 Otoadmittance Meter  *GR Today* Aut 1973

M/S 80 Laser Trim System (Micronetics) see GR Today Autumn 1973, Cat 73

GR/TEL LCD Tester “Looking Glass” See HPH Papers With Tokyo Electron

TR-47/APR Test Oscillator Nov 1946 R.A.Soderman Made by Fairchild Camera to GR dwgs

Spacecraft Atomic Timing System (SATS) for NASA

**GR Radios & Transmitters**

149 Radio Transmitter

158 Auxiliary Radio Transmitter made for Bureau of Steam Engineering

**BC-14A Radio Receiving Set USA Signal Corps**

**S.C.R. 112 Batttalion Regiment Set Box**

P-521-A Receiver RESTRICTED 300-1000 MC for field strength measurements.

P-540 Receiver A Search receiver for radar countermeasures which covered the freq range

 of 70-1000Mc. Manufactured by Philco. Navy ARC-1, Air Corps SCB-587

Unidentified battery-operated transmitter HPH has photo (from B. Sargen)

Clapp-Eastham Radios

**HR & HZ 1921**

RADAK R-4 1923

RADAK DD 1925

**Catalog Dates and Scanned Formats P=PDF, W=Word, J=Jpeg, D=DjVu**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | 1916/1917 | P | H | 1935 | W | O | June 1956 | J |
| B | 1918 | J | J | Sept 1936 | W | P | April 1959 | J |
| C | 1919 | W | K | 1939 | W | Q | May 1961 | J |
| D\* | 1921-1927 | P,J | K 2nd Ed | 1942 | J | R | May 1963 | J |
| E  | Sept 1928 | W | K 3rd Ed | 1944 | J | S | 1965 | J |
| E 2nd Ed | Dec 1928 | W | K4th Ed | 1945 | W | T | Feb 1968 | J,D |
| F | June 1930 | W,J | K5th Ed | 1946 | J | T Supplmt | 1969 | J |
| F Pt2 | April 1931 | W | K Supplmt | 1945 | J | U | Feb 1970 | J |
| F Pt3 | Oct 1931 | W | L | 1948 | W | Cat ‘73 | 1973 | P |
| F Suppmts | 1931 | J | L Supplmt |  | W | Cat ‘78 | 1978 | J |
| G | 1932 | W | M | Oct 1951 | W | RLC Cat | 1986 | J |
| G Pt2 | Mar 1934 | W | N | Jan 1954 | W |  |  |  |

\* Catalog D is a collection of Bulletins and Parts Catalogs. Most have been scanned and are available.