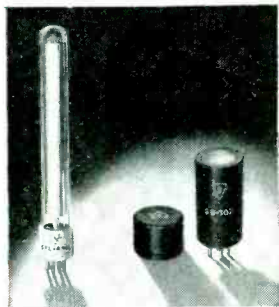


# SYLVANIA ELECTRONIC TUBES



## GEIGER-MUELLER TUBES



Left: GG-304. Center: Cap for GB-302. Right: GB-302 with cap removed.

The Sylvania Types GB-302 and GG-304 are counter tubes of stable, uniform characteristics, manufactured by vacuum tube production techniques. Other features include long life, dependability and convenience.

GB-302 is a beta-ray counter, utilizing a thin but rugged window of metal foil. It is extremely sensitive to the beta radiation of the majority of available radioactive isotopes. Useful in tracer techniques and in medical diagnostic and therapeutic applications.

GG-304 is the gamma-ray counter, companion to the GB-302. Useful in radiological safety surveys and other applications where gamma radiation must be efficiently measured. Also used for cosmic ray studies.

## ACCELEROMETER TUBES



The accelerometer is a newly developed electronic tube useful in measuring linear acceleration. Operating range — 1 to 100 g's.

SD759A

## SYLVANIA FLASH TUBES



Sylvania Flash Tubes, used with suitable equipment, provide brilliant flashes of blue-white light of extremely short duration. Developed primarily for photographic purposes, Flash Tubes are also used in beacons, obstruction markers and signaling devices.

Illustrated at left: Type R4340

OPERATING CHARACTERISTICS OF FLASH TUBES							
Type	Forward Anode Voltage		Typical Operating Voltage	Max. No. Flashes Per Min.	Max. Wait-sec. Per Flash	Trigger Supply Volts min.	Light Output Peak Lumens
	min.	max.					
R4330	2000	2500	2250	6	100	15,000	12,000,000
R4340	2000	2500	2250	4	400	15,000	12,000,000

## GLOW MODULATOR TUBES

Light output of Glow Modulator Tubes R1130B and R1131 varies in an essentially linear manner with the current passing through the tube. Tubes are of crater type, providing high ionization density.

Crater diameter of the R1130B is .050 inch; of the R1130, .093 inch. In other respects the tubes are identical.



R1130B

Operating Voltage	140 volts max.
Operating Current	5-35 ma.
Starting Voltage	225 volts max.
Modulating Frequency Range	15-15,000 cps
Useful Light Range	3500-6500 A.
Filament Voltage	None: cold cathode

## PIRANI AND THERMOCOUPLE TUBES

Sylvania Pirani Tube R1111 and Thermocouple Tube R1100, used with suitable auxiliary apparatus, provide a means for direct measurement of gas pressures over a range from about  $10^{-1}$  to  $10^{-5}$  mm. With proper care, readings with an accuracy of + 5% can be obtained.

### ELECTRICAL CHARACTERISTICS Pirani Tube R1111

Resistance (cold)	6.6 ohms
Resistance (hot—evacuated tube, 100 ma current)	15.5-17.0 ohms
Operating Voltage	1.5 volts

### Thermocouple Tube R1100

Filament Resistance (max.)	3.0 ohms
Thermocouple Resistance (max.)	5.0 ohms
Filament Current (max.)	125 ma
Thermocouple Current (max.)	250 $\mu$ a



Left: Thermocouple Tube R1100. Right: Pirani Tube R1111.

## GAS DISCHARGE TUBES

Gas Discharge Tubes are of the externally triggered cold cathode type. Capable of handling high instantaneous currents, they find wide use as electronic switches in high voltage circuits. A common use is as drivers and pulse generators for magnetostriction oscillators in underwater sound equipment.



SS501

ELECTRICAL RATINGS		
Characteristic	SS501	R4410
Operating Voltage	1800-2000	1900
Hold-Off (Breakdown) Voltage—min.	2100	2000
Trigger Voltage (min.)	15,000	15,000
Discharge Capacitance (max.)	2 $\mu$ f	10 $\mu$ f
Flashing Rate (max.)	12 pps	12 pps

## COPLANAR TRIODES

Sylvania Coplanar Triodes utilize a radically new type of construction, involving a streamlined cathode assembly and planar grid. Advantages of the new design include higher efficiency, minimum interelectrode capacitances, minimum transit time effect, efficient operation up to 3000 Mc., maximum power output with minimum input power, and low heater drain.

No base is required for mounting these Coplanar Triodes. Inner conductor connects to heater; outer conductor to heater and cathode; straight disc to plate; and cupped disc to grid.

Detailed specifications on Type 2C36 triode oscillator, 2C37 general-purpose triode, and other tubes in this group may be obtained from Sylvania Electric.



2C36

2C37

# SYLVANIA ELECTRIC

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