WESTINGHOUSE ELECTRIC CORPORATION
ELECTRON TUBE
TUBE TYPE 5966

The type 5966 tube is a special triode designed for ionization vacuum gauge service. It can be used to measure pressures as low as $10^{-10}$ mm Hg. The cathode is a pure tungsten filament.

**ELECTRICAL DATA** (Approximate)
- Filament and Voltage: 6 ac or dc volts
- Filament and current: 2.5 amperes

**MECHANICAL DATA**
- Outline Drawing Number: 60150
- Type of Cooling: Air
- Maximum overall length (including tubulation): 11-1/2 inches
- Maximum Tube Radius: 2-3/4 inches
- Maximum Bulb Diameter: 2-1/16 inches
- Bulb Glass: Kornex
- Tubulation diameter, (Approx.): 1/2 inch
- Operating Position: Vertical

**MAXIMUM RATINGS**
- Ion Collector Voltage: -100 Volts
- Grid Voltage: +500 Volts
- Ambient Temperature: $100^\circ$ Centigrade
- Maximum Gas Pressure: $10^{-3}$ mm Hg.

**TYPICAL OPERATION**
- Ion Collector Voltage: -30 Volts
- Grid Voltage: +150 Volts
- Grid Current: 10 Milliamps
- Sensitivity: 1 $\mu$ amp/$10^{-3}$ mm Hg.

**CONDITIONS FOR OUTGASSING ELEMENTS**
- Grid Voltage: 4500 Volts Max.
- Ion Collector: Tied To Grid
- Filament**: Series Connection: 15 Volts Max.
- Parallel Connection: 7.5 Volts Max.
- Outgas Power on Grid & Ion Collector: 100 Watts Max.

* Two Filaments are supplied, one of which is a spare.
** To outgas the ionization gauge, the two filaments may be connected either in series or parallel. Connect ion collector to grid and attach to +500 volts dc. Adjust emission current by raising filament voltage to give the desired operating condition to outgas the elements.

from RTMA release #1105, July 21, 1952