



ELECTRONIC TUBE REFERENCE

6361

Specialized - Sensor Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
SENSOR

Convectron vertical-reference sensor using heated filaments and gas convection to detect tilt electronically. Two units can form an orthogonal bridge system for precision inclination measurement.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Sensor

No fixed ratings recorded.

Published characteristics and ratings promoted where clearly recoverable from source.

The introduction of the Type-TT-25 Single Convectron Unit marks an important advance in the technique of determining and correcting deviations from a vertical reference position wholly by electronic means. This tube consists of a fine wire sensing element supported in a gaseous atmosphere within a glass envelope. Connections to the sensing element are made to external metal caps at both ends of the tube. Two Type TT-25 tubes are required for the installation. These are mounted so that their axes form an angle of 90 degrees and they are connected electrically to form a bridge circuit as illustrated in the drawing on the reverse side of this sheet. The filaments carry sufficient current to heat them to an average temperature of about 400° C. The heat leaves the filaments by (1) metal conduction {2} gas conduction {3} radiation and (4) gas convection. The percentage of heat leaving by the first three means is comparatively small, while that leaving by convection is large. Gas convection currents rise along the vertical and so pass the filament at whatever angle it happens to be relative to the vertical. The relative rate at which each filament loses its heat to these convection currents

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