# FERRANTI
## TELEVISION MONITOR TUBE

A high resolution Television Studio Monitor Tube with an 8in. diagonal Rectangular Screen. The screen is metal backed and low voltage electrostatic focus is provided.

### PHYSICAL DETAILS.
- **Base**: B12A (Duodecal).
- **Anode Cap**: CT8 Cavity Type.
- **Max. Overall Length**: 293 mm.
- **Neck Diameter**: 37 mm. (nominal).
- **Mounting Position**: Any.

For other dimensions see drawing.

### BASE CONNECTIONS.
- **Pin 1**: Heater.
- **Pin 2**: Grid.
- **Pin 3**: No Pin.
- **Pin 4**: No Pin.
- **Pin 5**: No Pin.
- **Pin 6**: 3rd Anode.
- **Pin 7**: No Connection.
- **Pin 8**: No Pin.
- **Pin 10**: 1st Anode.
- **Pin 11**: Cathode.
- **Pin 12**: Heater.

**Side Contact**—2nd Anode + 4th Anode.

### HEATER.
- **Heater Voltage**: 6.3 volts.
- **Heater Current**: 0.3 amp.

### RATINGS.
- **Max. $A_1$ Voltage**: 500 volts.
- **Max. $A_2 + A_4$ voltage**: 15 kV.
- **Max. Pos. $A_3$ voltage**: +500 volts.
- **Max. Neg. $A_3$ voltage**: -500 volts.
- **Min. $A_1$ voltage**: 200 volts.
- **Min. $A_2 + A_4$ voltage**: 8 kV.
- **Max. $V_{h-k}$ (Heater positive)**: 150 volts.
- **Max. $V_{h-k}$ (Heater negative)**: 200 volts.
- **Max. $R_{h-k}$**: 1.5 MΩ.
- **Max. $R_{h-k}$**: 1.0 MΩ.

### TYPICAL OPERATION AND CHARACTERISTICS.
- **Heater Voltage**: 6.3 volts.
- **1st Anode Voltage**: 300 volts.
- **2nd and 4th Anode voltage**: 12 kV.
- **3rd Anode voltage** for focus: -300 to +300 volts.
- **$V_G$ for visual cut off**: -30 to -70 volts.

$\dagger$Av, Grid Drive for $I_a = 100 \mu A$ 25 volts.

### CAPACITANCES.
- $C_{k-all}$: <8 pF.
- $C_{g-all}$: <8 pF.

$\dagger$The grid should never be positive with respect to the cathode.

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FERRANTI LIMITED, GEM MILL, CHADDERTON, OLDHAM, LANCS.
Dimensions in millimetres